**SHARP**®

ECTRONIC CASH REGISTER

ER-A550

INSTRUCTION MANUAL



If undue force is applied to the drawer, the cash register will become unstable,

This apparatus complies with the requirements of EN 55014, 02, 1987 and BS 800: 1988.

Dieses Gerät stimmt mit den Bedingungen der EN 55014, 02. 1987 überein.

Cet appareil répond aux spécifications de la EN 55014, 02. 1987.

Dit apparaat voldoet aan de vereiste EN 55014, 02. 1987.

Apparatet opfylder kravene i EN 55014, 02. 1987.

Questo apparecchio è stato prodotto in conformità alle EN 55014, 02. 1987.

Αύτή ἡ συσκευή τηρεῖ τίς προδιαγραφές τῆς ΕΝ 55014, 02. 1987.

Este aparelho responde às especificações da EN 55014, 02. 1987.

Este aparato cumple las especificaciones de la EN 55014, 02. 1987.

### CAUTION:

For a complete electrical disconnection pull out the mains plug.

#### VORSICHT:

Zur vollständigen elektrischen Trennung vom Netz, den Netzstecker ziehen.

### ATTENTION:

Pour obtenir une mise hors-circuit totale, débrancher la prise de courant secteur.

### AVISO:

Para una desconexión eléctrica completa, desenchufar el enchufe de tomacorriente.

#### **VARNING:**

För att helt koppla från strömmen, dra ut stickproppen.

# INTRODUCTION

Thank you very much for your purchase of the SHARP Electronic Cash Register, Model ER-A550. Please read this Manual carefully before operating your machine in order to gain a full understanding of its functions and performance.

Please keep this Manual for future reference. It will help you, if you encounter any operational problems.

# **IMPORTANT**

- Install your ER-A550 in a location that is not subject to direct radiation, unusual temperature changes, high humidity or exposed to water sources.
   Installation in such locations could cause damage to the cabinet and the electrical components.
- The register should not be operated by an individual with wet hands.
   The water could seep into the interior of the ER-A550 and cause component failure.
- When cleaning your register, use a dry, soft cloth. Never use volatile liquid, such as benzine and thinner.

The use of such chemicals will lead to discoloration or deterioration of the cabinet.

- The ER-A550 register plugs into any standard wall outlet (Official (nominal) voltage).

  Other electrical devices on the same electrical circuit could cause the ER-A550 to malfunction.
- If the register malfunctions, call your local dealer for service Do not try to repair the register yourself.

# PRECAUTION

This Electronic Cash Register has a built-in memory protection circuit which is operated by rechargeable batteries.

As you know, all batteries will, in time, dissipate their charge even if not used.

Therefore to insure an adequate initial charge in the protection circuit, and to prevent any possible loss of memory upon installation, it is recommended that each unit be allowed to recharge for a period of 24 to 48 hours prior to use by the customer.

In order to charge the batteries, the machine must be plugged in and its power switch must be set to the "ON" position. This recharging precaution can prevent unnecessary initial service calls.

# CONTENTS

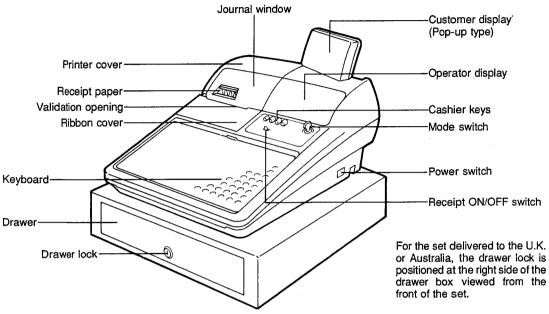
|   |   | age        |
|---|---|------------|
| • | PHYSICAL CHARACTERISTICS OF THE ER-A550 REGISTER                                      | 6          |
| • | KEYBOARD LAYOUT AND SWITCH AND KEY DESCRIPTIONS                                       | 8          |
|   | 1. Keyboard   | 8          |
|   | 2. Mode switch and mode keys  | . 11       |
|   | 3. Cashier keys   | . 12       |
|   | 4. Receipt ON-OFF switch  | . 12       |
|   |   |            |
| • | 1. Operator display   |            |
|   | 2. Customer display   | . 15       |
|   |   |            |
| • | GENERAL INSTRUCTIONS  | . 16       |
| • | HOW TO PROGRAM ALPHANUMERIC CHARACTERS  | . 17       |
| _ | PROGRAMMING   | . 13       |
| • | 1. Setting the date and time  | . 18       |
|   | (1) Setting the date (#2610)  | . 18       |
|   | (2) Setting the time (#2611)  | . 19       |
|   | 2. Setting the register number (#2612)  | . 19       |
|   | 3. Setting the consecutive number (#2613)   | . 20       |
|   | 4. Programming for departments  | . 20       |
|   | (1) Programming of unit prices (#1110)  | . 20       |
|   | (2) Functional programming (#2110)  | . 21       |
|   | (3) Programming of tax status (#2111)   | . 22       |
|   | (4) Setting a limit amount (HALO) of entry (#2112)                                    | . 23       |
|   | (5) Programming of department text (#2114)  | . 24       |
|   | ALPHANUMERIC CHARACTER CODE TABLE   | . 25       |
|   | (6) Assigning departments to groups (#2116)   | . 26       |
|   | (7) Assigning print stations to departments (#2118)                                   | . 27       |
|   | (8) Positioning of department keys (#2119)  | . 27       |
|   | 5. Programming for PLUs   | . 28       |
|   | (1) Definition of PLU codes and department assignment (#1200 and #2230)               | . 29       |
|   | (2) Programming of unit prices (#1210)  | . 30       |
|   | (3) Programming of base quantity (#1211)  | . 30       |
|   | (4) Programming of sign and tax status (#2211 and #2232)                              | . 31       |
|   | (5) Programming of PLU text (#2214)   | . 33       |
|   | (6) Programming of set PLUs (#2221)   | . 33       |
|   | (7) Programming of link PLUs (#2220)  | . 34       |
|   | (8) Programming of PLU level shift codes (#2217)                                      | . 35       |
|   | (9) Assigning print stations to PLUs (#2218 and #2233)                                | . ან       |
|   | (10) Positioning of direct PLU keys (#2219)   | . ან       |
|   | (11) Programming of stock quantity (#1222, #1220 and #1221)                           | . 3/       |
|   | 6. Function parameter programming   | . 39       |
|   | (1) Programming of deduction amount, premium and discount rate, and currency exchange | 20         |
|   | rate (#1310)  | . აყ<br>// |
|   | (2) Programming of tax rate (#2711)   | . 40       |
|   | (3) Functional programming for the finalization KeVS (#232U)                          | . 41       |

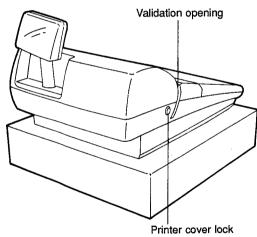
|   |  | ۲    | 'age       |
|---|--|------|------------|
|   | (4) Programming of sign (for %, ⊝) (#2311)   |      | 42         |
|   | (5) Item % or subtotal % selection (#2315)   |      | 42         |
|   | (6) Item ⊝ or subtotal ⊝ selection (#2316)   |      | 43         |
|   | (7) Programming of HALO for percent calculation (#2313)                                      |      | 44         |
|   | (8) Programming of HALO for deduction, received on account, and paid out (#2312)             |      | 44         |
|   | (9) Programming of HALO for the finalization keys (#2322)                                    |      | 45         |
|   | (10) Programming of HALO for cash in drawer, cheque change, and cheque cashing (#232         | ١) . | 46         |
|   | (11) Programming of function text (#2314)  | ΄    | 47         |
|   | LIST OF FUNCTION TEXTS   |      | 48         |
|   | 7. Cashier programming   |      |            |
|   | (1) Cashier code definition (#1500)  |      | 52         |
|   | (2) Programming of the cashier name (#1514)  |      | 52         |
|   | (3) Functional programming to cashiers (#2510)   |      | 53         |
|   | 8. Programming alarm length of time with drawer opening (#2617)                              | •    | 54         |
|   | 8. Programming alarm length of time with drawer opening (#2017)                              | • •  | 55         |
|   | 9. Programming for optional feature selection (#2616)  |      | . 55<br>57 |
|   | 0. Programming of validation printing and slip printing (#2615)                              |      | . 51<br>50 |
|   | 1. Logo text programming (#2614)   |      |            |
|   | 2. Programming of hourly report (#2619)  |      | . 60<br>61 |
|   | 3. Selection of X1/Z1 and X2/Z2 reports to be printed in the stacked report sequence (#2620) |      | . סו       |
|   | 4. Secret codes to control access to PGM1 mode, and Z1 and Z2 reports                        |      | -          |
|   | (#2630, #2631 and #2632)   |      |            |
|   | 5. Reading stored programs   | •    | . 04       |
|   | (1) Program details and procedures for their reading   | •    | . 64       |
|   | (2) Sample printouts   | •    | . 65       |
| • | REGISTRATIONS  |      | . 75       |
|   | * Preparations for entries   |      | . 75       |
|   | * Error warning  |      |            |
|   | 1. Cashier assignment  |      |            |
|   | 2. Item entries  |      |            |
|   | (1) Single item entries  |      |            |
|   | (2) Repeat entries   |      |            |
|   | (3) Multiplication entries   |      |            |
|   | (4) Successive multiplication entries (option)   |      |            |
|   | (5) Split-pricing entries (option)   |      | . 81       |
|   | (6) Single item cash sale (SICS)/single item finalize (SIF) entries                          |      | . 82       |
|   | 3. Other entries for PLUs  |      | . 83       |
|   | (1) Set PLU entries  |      | . 83       |
|   | (2) Link PLU entries   |      |            |
|   | (3) PLU level shift (for direct PLU)   |      | . 84       |
|   | 4. Display of subtotals  |      | . 85       |
|   | 5. Finalization of transaction   |      |            |
|   | (1) Cash or cheque tendering   |      |            |
|   | (2) Mixed tendering (cheque + cash)  |      |            |
|   | (2) Mixed tendering (cheque + cash)  | •    | . ο·       |
|   | (3) Cash or cheque sale that does not need a tender amount entry                             | • •  | . O        |
|   | (4) Credit sale  |      |            |
|   | (5) Mixed-tender sale (cash or cheque tendering + credit sale)                               |      |            |
|   | Computation of VAT (Value Added Tax)/tax   |      | . 8        |
|   |  |      |            |

|   | Page   | •                          |
|---|--|----------------------------|
|   | (1) Percent calculations (premium or discount)       85         (2) Deduction       90         (3) Refund entries       91         (4) Printing of non-add code numbers       91         8. Manual PB+/PB-entries       92         (1) New guest       92         (2) Additional ordering       93         (3) Settlement       94         9. Payment treatment       95         (1) Currency exchange       95         (2) Received-on account entries       96         (3) Paid out entries       96         (4) No sale (exchange)       97         (5) Cashing a cheque       97 | 0 1 1 2 2 3 4 5 5 6 7      |
| • | CORRECTION  1. Correction of the last entry (direct void)  2. Correction of the next-to-last or earlier entries (indirect void)  3. Correction of the subtotal (subtotal void)  4. Handling of errors found after receipt issuance  98  98  98  106  98  106  106  | 3<br>9                     |
| • | VARIOUS PRINTING.10°1. Copy receipt printing.10°2. Guest check copy.10°3. Validation printing function.10°3-1. Validation slip setting and printing.10°3-2. The validation printing can occur just after the following registrations.10°(1) Validation printing of item entries.10°(2) Validation printing after the finalization of a transaction.10°3-3. Validation slip specification.10°   | 1<br>2<br>3<br>4<br>4<br>5 |
| • | OVERLAPPED CASHIER ENTRY   | 3                          |
| • | PRINTING OF THE EMPLOYEE ARRIVAL AND DEPARTURE TIMES   | 7                          |
| • | MANAGER MODE   | 7                          |
| • | CORRECTION AFTER FINALIZING A TRANSACTION (AFTER GENERATING A RECEIPT) 10  | 8                          |
| • | TIME DISPLAY AND AUTOMATIC UPDATING OF THE DATE  | 9                          |
| • | AUTOMATIC KEY FUNCTION   | 0                          |
| • | READING (X) AND RESETTING (Z) OF SALES TOTALS  | 1                          |
| _ | - SAMPLE REPORTS —   | 3                          |
| • | COMPULSORY CASH/CHEQUE DECLARATION   | 6                          |
| • | OPERATOR MAINTENANCE  1. In case of power failure  2. In case of printer's motor locking  3. Paper roll near-end sensing function (only for journal paper) < option >  | 8 9 9                      |

|   |  | Page              |
|---|--|-------------------|
|   | 6. Ink refill                          | 135<br>135<br>136 |
| • | LIST OF OPTIONS                        |                   |
| • | SPECIFICATIONS                         | 138               |
|   | SLIP PRINTER (OPTION) MODEL ER-31SP    |                   |
| • | KITCHEN PRINTER (OPTION) MODEL ER-02RP | 150               |

# PHYSICAL CHARACTERISTICS OF THE ER-A550 REGISTER





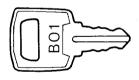
■ Drawer lock

Lock: Turn 180 degrees counterclock-

wise.

Unlock: Turn 180 degrees clockwise.

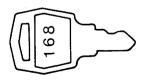
■ Drawer lock key



(For the set delivered to the U.K. or Australia)

Unlock: Turn 90 degrees clockwise.

■ Drawer open key

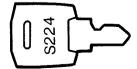


■ Printer cover lock

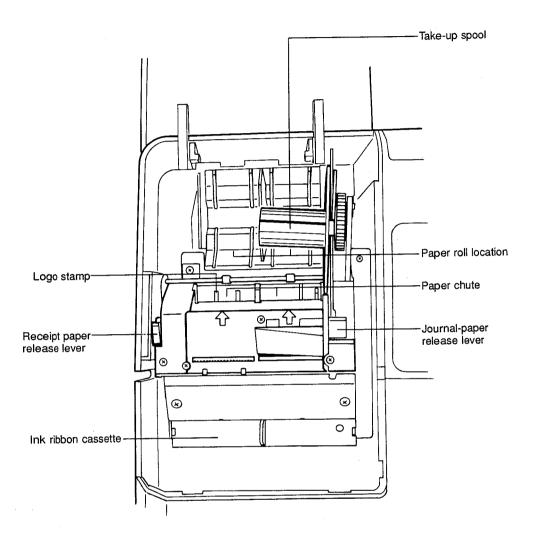
Lock: Turn 90 degrees clockwise.

Unlock: Turn 90 degrees counterclockwise.

Printer cover lock key



### **Printer**



 Paper release lever
 Used to load or unload the machine with paper roll (receipt and journal paper). Keep the lever down to take in or out the paper roll.

### Note:

Do not attempt to take in or out the paper roll with this lever at the up position.

This may result in damage to the printer.

# KEYBOARD LAYOUT AND SWITCH AND KEY DESCRIPTIONS

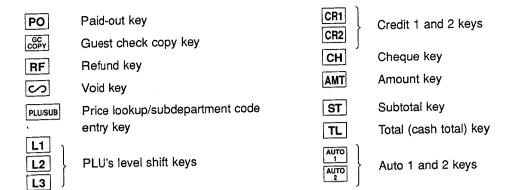
# 1. Keyboard

### Standard keyboard layout

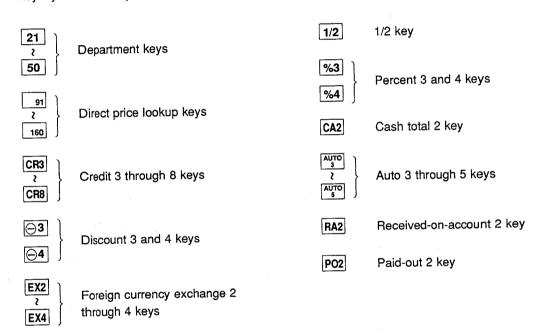
| ↑<br>RECEIPT | <b>↑</b> JOURNAL | 5          | 10 | 15  | 20          | L3             | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
|--------------|------------------|------------|----|-----|-------------|----------------|----|----|----|----|----|----|----|----|----|
| RCPT         | VP               | 4          | 9  | 14  | 19          | L2             | 9  | 19 | 29 | 39 | 49 | 59 | 69 | 79 | 89 |
| SLIP         | GC<br>COPY       | 3          | 8  | 13  | 18          | L <sub>1</sub> | 8  | 18 | 28 | 38 | 48 | 58 | 68 | 78 | 88 |
| AUTO<br>1    | AUTO 2           | 2          | 7  | 12  | 17          | РВ-            | 7  | 17 | 27 | 37 | 47 | 57 | 67 | 77 | 87 |
| NS           | VAT              | 1          | 6  | 11  | 16          | PB+            | 6  | 16 | 26 | 36 | 46 | 56 | 66 | 76 | 86 |
|              | #                | lacksquare | •  | CL  | AMT         | NBAL           | 5  | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 |
| Θ1           | ⊖2               | 7          | 8  | 9   | PLU/<br>SUB | CR2            | 4  | 14 | 24 | 34 | 44 | 54 | 64 | 74 | 84 |
| %1           | %2               | 4          | 5  | 6   | EX1         | CR1            | 3  | 13 | 23 | 33 | 43 | 53 | 63 | 73 | 83 |
| РО           | RA               | 1          | 2  | 3   |             | СН             | 2  | 12 | 22 | 32 | 42 | 52 | 62 | 72 | 82 |
| RF           | S                | 0          | 00 | 000 | ST          | TL             | 1  | 11 | 21 | 31 | 41 | 51 | 61 | 71 | 81 |

Note: All the keys but the receipt paper feed and journal paper feed keys can be changed in their positions. If you want to change the layout, however, contact your dealer.

| 0         |  | SLIP        | Slip print key                  |
|-----------|--|-------------|---------------------------------|
| 9         |  | VP          | Validation print key            |
| 00        | Numeric keys   | NS          | No sale key                     |
| 000       |  | VAT         | Value added tax key             |
| •         | Decimal point key  | <b>%1</b>   | Demont 1 and 0 kays             |
| CL        | Clear key  | %2          | Percent 1 and 2 keys            |
| $\otimes$ | Multiplication key   | <b>⊝1</b> ] | Discount 1 and 2 kays           |
| 1 ]       |  | <b>⊝2</b> } | Discount 1 and 2 keys           |
| 20        | Department keys  | PB-         | Previous balance minus key      |
| RECEIPT   | Receipt paper feed key   | PB+         | Previous balance plus key       |
| JOURNAL   | Journal paper feed key   | NBAL        | New balance key                 |
| ر ا       | Diversity and the leader was to the state of | EX1         | Foreign currency exchange 1 key |
| 90        | Direct price lookup/subdepartment keys   | #           | Non-add code key                |
| RCPT      | Receipt print key  | RA          | Received-on-account key         |



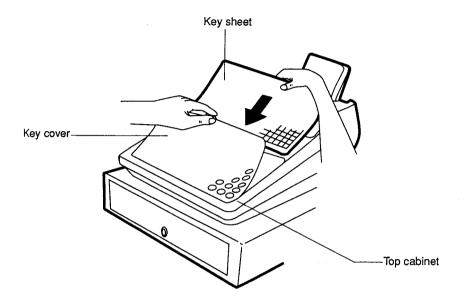
The following function keys can optionally be mounted in addition to those shown in the figure of the standard key layout. Consult your dealer.



# Attaching of the key sheet

The ER-A550 packing carton contains two types of key sheet: the sheet for the standard keyboard layout and that for programming.

Insert the key sheet between the keyboard cover and the top cabinet as illustrated below.

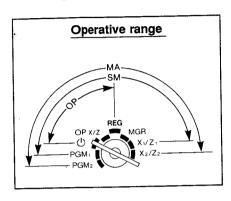


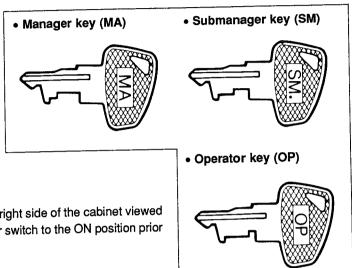
- Note 1) Do not pull the keyboard cover too tightly. The cover may tear.
- Note 2) Replace the key sheet with new one if by chance it gets wet. Too long use of a wet key sheet may result in a machine trouble.
- Note 3) Too thick or hard sheets can make key operation difficult.
- Note 4) Spread the key sheet properly under the keyboard cover, without any folds or wrinkles, to ensure easier key-in operation.
- Note 5) If you require the key sheet, please consult your dealer.

  Keyboard cover will wear out. If your keyboard cover is dirty or broken, replace the cover with a new one. For details, consult your local dealer.

# 2. Mode switch and mode keys

The mode switch can be operated by inserting one of the three supplied mode keys — manager (MA), submanager (SM), and operator (OP) keys. The keys can be inserted or removed only when they are in the REG or (I) position.





\* The power switch is positioned at the right side of the cabinet viewed from the front of the set. Set the power switch to the ON position prior to using your machine.

### The mode switch has these settings:

: For switching off the display to prevent keyboard entries (This setting does not turn off the AC power.)

OP X/Z: For individual cashier reading and resetting and for displaying the time

**REG**: For various entries

**PGM1**: For programming those items that need to be changed often: e.g., unit prices of departments or PLUs and percentages

PGM2: For various PGM1 programming and programming of those items that do not require frequent changes: e.g., date, time, or a variety of register functions

MGR : Only the manager can use this setting to make various entries that are not permitted to be made by cashiers – for example, after-transaction voiding and limit overriding.

X1/Z1 : For reading and resetting of any daily totalsX2/Z2 : For reading and resetting of any periodic totals

# 3. Cashier keys

The ER-A550 allows the operator to use cashier keys in the following two ways.

- Push-button cashier keys (4 cashiers)
- Real cashier keys (6 cashiers)

The standard machine has been shipped with the push-button cashier key system being programmed. If you want to change the cashier system, consult your dealer.

### (1) Push-button cashier keys (1, 2, 3, and 4)



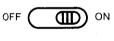
These keys identify cashiers. Press any one of these keys. The register prints the symbol and cashier name that correspond to it both on the receipt and on the journal.

### (2) Real cashier keys (1, 2, 3, 4, 5, and 6)



Individual cashiers are distinguished by the respective keys inserted into the cashier switch.

### 4. Receipt ON-OFF switch



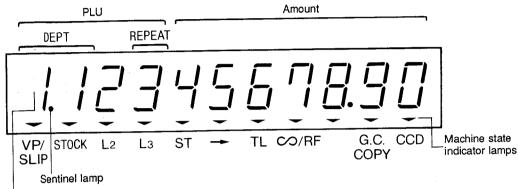
RECEIPT

This switch permits or prohibits receipt printing. To permit printing on the journal alone without receipt, slide the switch to the OFF position and to permit printing on both the journal and the receipt, slide it to the ON position.

Note: Your register will print receipts regardless of the position of this switch except when the mode switch is in the REG position. This means that the receipt roll must be installed even when this switch is kept in the OFF position.

# **DISPLAYS**

# 1. Operator display



The place where a machine state symbol appears

The number of repeats is displayed from "2" and counted up with each repeat.
 When you've registered ten times, the display shows "0".

Example:  $(2 \rightarrow 3 \rightarrow 4 \dots 9 \rightarrow 0 \rightarrow 1 \rightarrow 2 \dots)$ 

### Machine state symbols

Appears in the eleventh place from the right during programming.

Appears in the eleventh place when an error is detected. Two-digit error code will follow this symbol.

Appears when an entry is made into a minus department or PLU/subdept. and when
 (Floating) discount, reduction, or refund entry is made or corrected.

Appears in the eleventh place when the tax-included subtotal is displayed or when the amount tendered is smaller than the sale amount.

Appears in the eleventh place when the key is depressed in the MGR mode, indicating entry into the VOID mode. While your register is in the VOID mode, this symbol continues to be in the display except when department numbers. PLU numbers or tax-included subtotals are displayed. And appears when a subtotal void is made.

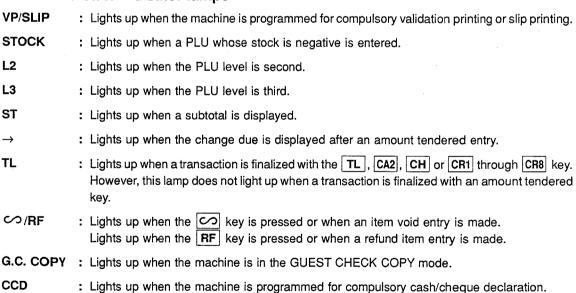
• : Appears right below the eleventh place when the cash in drawer amount exceeds a (Sentinel lamp) programmed sentinel amount. The sentinel check is performed for the total cash in drawer.

Appears in the eleventh place when the EX1 ~ EX4 keys are pressed to calculate a subtotal in foreign currency.

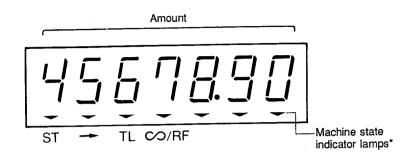
### Error code table

| Error code | Error status  |
|------------|---|
| E01        | Registration error  |
| E02        | Misoperation  |
| E03        | Undefined code error  |
| E04        | Paper empty   |
| E05        | Secret code error   |
| E07        | Memory is full.   |
| E10        | Out of stock  |
| E11        | Compulsory of pressing the ST key   |
| E12        | Compulsory of tendering   |
| E13        | Compulsory of PB entry  |
| E16        | Check digit error   |
| E22        | Overlapped cashier error  |
| E23        | Cashier resetting over error  |
| E25        | Set slip paper again.   |
| E26        | File type error   |
| E31        | Compulsory of non-add code entry  |
| E32        | The cashier key is not pressed.   |
| E33        | The cashier key is changed in the transaction.                                  |
| E34        | Overflow limitation   |
| E35        | The open price entry is inhibited.  |
| E36        | The unit price entry is inhibited.  |
| E37        | The direct non-tendering finalization after previous tender entry is inhibited. |
| E39        | Power-off during slip paper feed  |

### • Machine state indicator lamps



# 2. Customer display (Pop-up type)

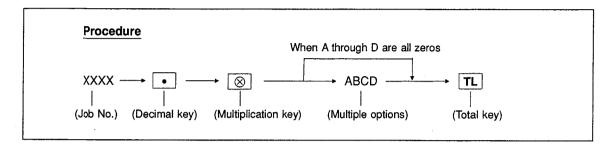


\* These lamps light up in the same manner as the machine state indicator lamps in the operator display.

# GENERAL INSTRUCTIONS

There are a few things you should keep in mind when programming the ER-A550.

The following sections are considered general instructions because they apply to the majority of jobs and procedures contained in this manual. If you take the few minutes to read these, you might save yourself some time and aggravation when programming.



| Entering numbers |
|------------------|
|------------------|

When entering the job number or numbers as part of a procedure, use the numeric key. It contains the decimal  $\bullet$  key and the  $\boxtimes$  key used in all procedures.

### To change memory

To change the memory of the machine, always press the decimal • key after entering the job number.

### Reading a program

To take a reading of a program, that is printed on the register printer, do not press the decimal • key as indicated in the procedure. After you press the TL key, the reading is printed on the register printer.

### Entering options as a part of a procedure

In procedures that allow entry of multiple options, e.g., A B C D, <u>leading zeros are not required</u>; however, <u>trailing zeros are required</u>. In the A B C D example, if you wanted to program a 1 for the C option, you would enter 10. (Leading zeros for A and B are not required; trailing zeros are required.)

### Reading and entering key operations

You'll notice that there's an illustration for each job entitled – Key operation. What that illustration shows is how you would enter the associated example into the machine, using the numeric and alpha key. The key operation for setting the register number is listed as:

2612 • \otimes (1) 123456 **TL** (2)

In (1) above, you would enter 2612, press the decimal • key and then press the 🔘 key.

In (2) above, you would enter 123456 (for the sample register number) and then press the TL key. This

In most cases you end a procedure by pressing the TL key.

### Recovering from an error message

completes the procedure.

If you happen to get an error beep and message when programming, to recover and correct the condition, simply press the <u>CL</u> key. You'll notice that the error code is cleared from the display and you can continue programming.

Use the accompanying programming key sheet to key in numbers, letters and symbols.

| Us | ing the assigned touch keys, it is easy to program alphabetical letters as well as symbols (refer to Job# |
|----|---|
| 21 | 14 on page 24 and job# 2214 on page 33).  |
| •  | Numerals, letters and symbols are programmable simply by pressing the touch keys.                         |

| • | Double-size characters can be made by using the [[uc]] key.                   |
|---|---|
|   | Example: To program the word "SHARP" in double size, do the following key-in. |
|   | (DC) S (DC) H (DC) A (DC) R (DC) P  |

Small letters can be made by using the (SHIFT) key.

Example: To program the word "Sharp", do the following key-in.

S (SHIFT) H A R P

In this layout there are all the keys required for programming. So you can do every kind of programming on this key sheet.

### Programming key sheet

| ↑<br>RECEIPT | <b>↑</b> JOURNAL |     | â    | ê       | è  | é  | î       | ì       | í       | ô       | ò           | ó       | û | ù | ú                |
|--------------|------------------|-----|------|---------|----|----|---------|---------|---------|---------|-------------|---------|---|---|------------------|
| Г            | π                |     | à    | S       | Æ  | Ø  | Å       | Ñ       | Ç       | ¤       | Pt          | £       | [ | ] |                  |
| (SLIP)       | Σ                |     | á    | $\odot$ |    | !! | -       | -       | •       |         | <u>†</u>    | T I     | _ | ن | ?                |
| Θ            | Υ                |     | {    | }       | "  | @  | ••      | ,       | ,       | <       | <b>&gt;</b> | ^       | = | + | (BACK)<br>SPACE) |
| Λ            | Φ                | 1/2 | (DC) | ī       | !  | ** | §       | \$      | %       | ¢       | &           | (       | ) | * | #                |
| Ξ            | Ψ                | 8   | ·    | CL      | 1  | 2  | 3       | 4       | 5       | 6       | 7           | 8       | 9 | 0 | В                |
| 1            | Ω                | 7   | 8    | 9       | Q  | W  | È       | R       | Т       | Υ       | U           | I       | 0 | Р | Ü                |
| 2            | Δ                | 4   | 5    | 6       | Α  | S  | D       | F       | G       | Н       | J           | К       | L | Ö | Ä                |
| 3            | æ                | 1   | 2    | 3       |    | Z  | Х       | С       | V       | В       | N           | М       | ; |   | /                |
| 4            |                  | O   | 00   | 000     | ST | TL | (SPACE) | (SPACE) | (SPACE) | (SPACE) | (SPACE)     | (SHIFT) | , | • | _                |

<sup>-</sup>Note 1) The shaded keys ( ) cannot be used as a character key.

Note 2) The (DC) means double-size character code and this key is used for double-size character programming.

# PROGRAMMING

Your machine allows you to program in two modes: PGM1 and PGM2. The PGM1 mode is for programming those items that need to be changed often: unit prices of departments/PLUs, and percentages. The PGM2 mode is used for programming all PGM1-mode programs and those items that require less frequent changes: date, time, tax rate, and the functions of each key.

We describe below the programming or setting procedures of various items. Program every item necessary for your store following the appropriate procedures.

\* To set the mode switch to the PGM1 position, use the manager or submanager key; and to set to the PGM2 position, use the manager key.

# **Preparations for programming**

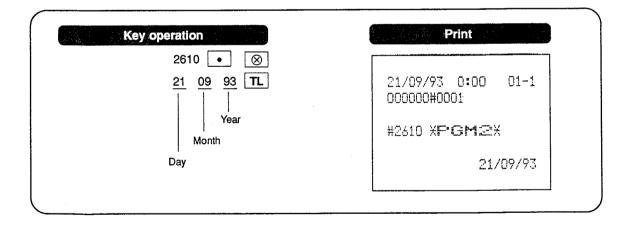
- 1. Plug your machine into a standard wall outlet.
- 2. Put the manager or submanager key in the mode switch and turn it to the PGM1 or PGM2 position depending upon the programming you are about to do.
- 3. Press any one of the push-button cashier keys.
- 4. Check to see whether both journal and receipt rolls are present in the machine. If they are missing, install journal and receipt rolls correctly.
- 5. Program necessary items into your machine.

# 1. Setting the date and time (PGM2 mode)

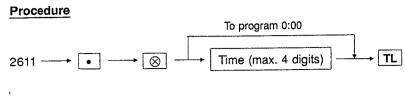
### (1) Setting the date

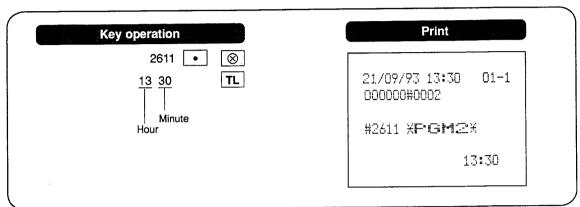
### **Procedure**





### (2) Setting the time



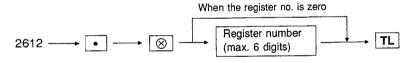


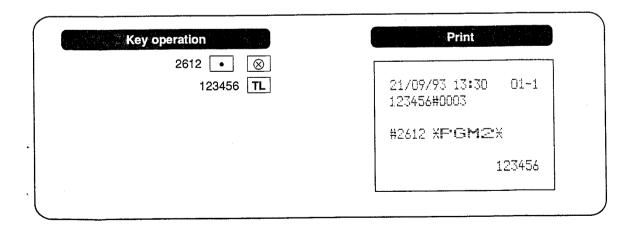
Note: Your machine can be programmed to display and print the time on the 12-hour system.

# 2. Setting the register number (PGM2 mode)

When your store has two or more registers, it is practical to set separate register numbers for their identification. You may set them in a maximum of six digits.

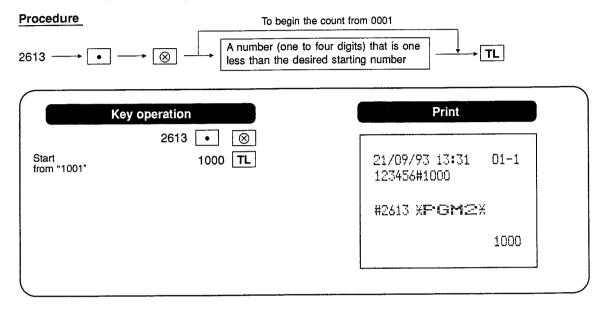
### Procedure





# 3. Setting the consecutive number (PGM2 mode)

The consecutive number is increased by one each time a receipt is published. Enter a number (one to four digits) that is one less than the desired starting number.

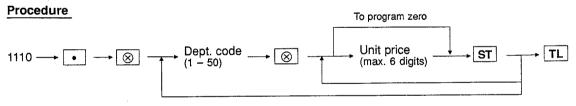


# 4. Programming for departments

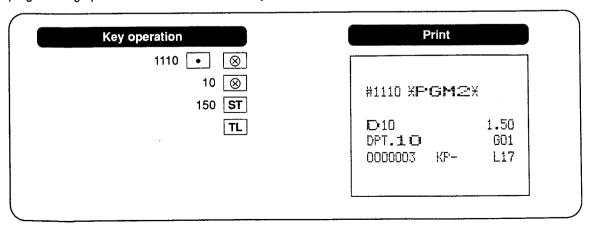
Your machine allows you to perform the following programming for each department.

### (1) Programming of unit prices (PGM1 or PGM2 mode)

Program a unit price for each department.



When the programming for the largest department code is completed with depression of the ST key, the programming operation terminates automatically. This holds true of every programming for departments.



## (2) Functional programming (PGM2 mode)

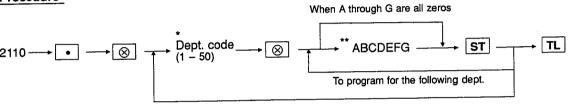
- (1) Compulsory item validation print

  If item entries must be validated, program corresponding departments for compulsory item validation
  print.
- ② SIF (Single-item finalization), SICS (Single-item cash sales), or normal sales Each individual department can be programmed as an SICS, SIF or normal department.
- 3 Four types of unit price entry

You may select one of the following four types of unit price entry for each department.

- (a) Open and preset
- (b) Preset only
- © Open only
- (d) Inhibit department key

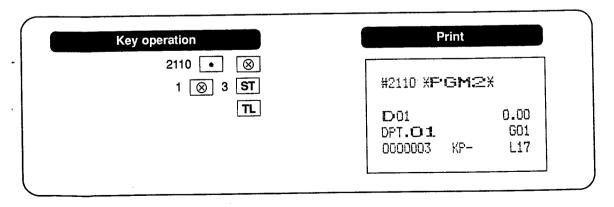
### Procedure



\* Dept. code: Standard 20 departments/max. 50 departments

Entry Item 1 Compulsory В Item validation print 0 Non-compulsory 2 SIF (Single-item finalization) 1 Ε SIF/SICS/Normal SICS (Single-item cash sales) Normal 3 Open and preset 2 Preset only G Type of unit price entry Open only 0 Inhibit

A, C, D, and F: Not used (Enter 0 for A, C, D, and F.)

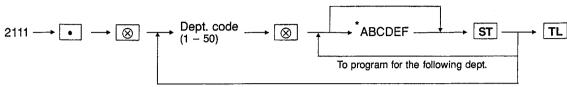


### (3) Programming of tax status (PGM2 mode)

Program a tax status for each department.

### **Procedure**

When A through F are all zeros



| Item | Tax status      |              |           |       |  |  |  |  |
|------|-----------------|--------------|-----------|-------|--|--|--|--|
|      | Ordinary system | Swiss system | Selection | Entry |  |  |  |  |
| С    |                 | VAT1         | YES       | 1     |  |  |  |  |
|      |                 | VALL         | NO        | 0     |  |  |  |  |
| D    | VAT3 or TAX3    | TAX3         | YES       | 1     |  |  |  |  |
|      | VAIS OF TAXO    | IAAO         | NO        | 0     |  |  |  |  |
| Е    | VAT2 or TAX2    | TAX2         | YES       | 1     |  |  |  |  |
|      | VALE OF TAXE    | 1,002        | NO        | 0     |  |  |  |  |
| F    | VAT1 or TAX1    | TAX1         | YES       | 1     |  |  |  |  |
| '    | VALLOLIAXI      | 1001         | NO        | 0     |  |  |  |  |

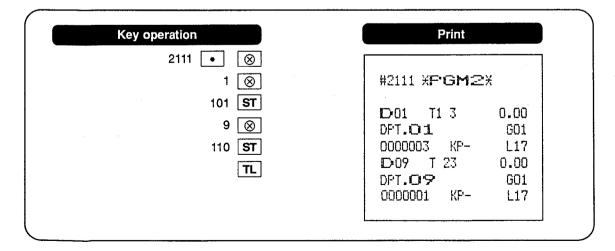
A and B: Not used (Enter 0 or nothing for A and B.)

Note 1: Item C is programmable only for the Swiss tax system.

Note 2: When the Swiss tax system has been selected, one of Tax3 (D), Tax2 (E), and Tax1 (F) can be selected in combination with VAT1 (C).

Example: CDEF = 1001, 1010 or 1100

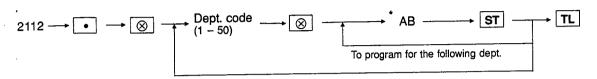
Note 3: The tax system of your machine has been factory-set to automatic VAT1 – 3. If you desire to select any of automatic tax 1 – 3, manual VAT1 – 3, manual VAT1, manual tax 1 – 3, and Swiss tax systems, contact your dealer.



# (4) Setting a limit amount (HALO) of entry (PGM2 mode)

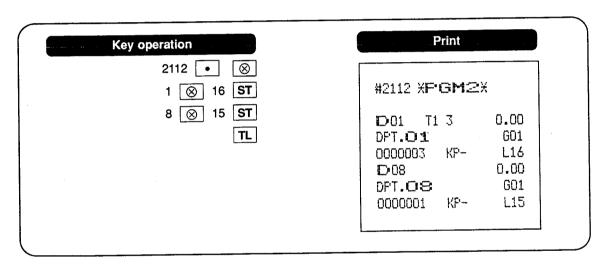
You can set upper limit amounts (HALO: High Amount Lockout) for each department. The limit is effective for the REG-mode operations and can be overridden in the MGR mode. HALO limit is represented by two figures as follows.

### **Procedure**



- \* AB is the same as  $A \times 10^{B}$ .
- A: Significant digit (1 through 9)
- B: 0 through 7

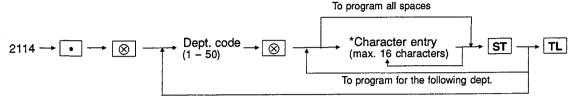
For example, presetting 14 (100.00) here means that amount entries up to 100.00 are allowed in REG mode. (In this case, HALO limit is 100.00.) But when you preset 17, the HALO limit is 99999.99.



### (5) Programming of department text (PGM2 mode)

You can program a maximum of 16 characters (standard: 8 characters, option: 16 characters) for each department. You can program the text either by using character keys or by entering character codes.

### **Procedure**



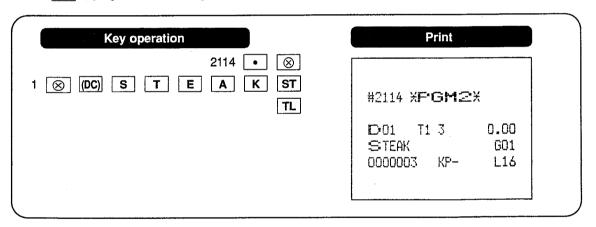
Note: If you enter a wrong character, you can delete it with the (BACK SPACE) key.

The (BACK SPACE) key deletes the last character.

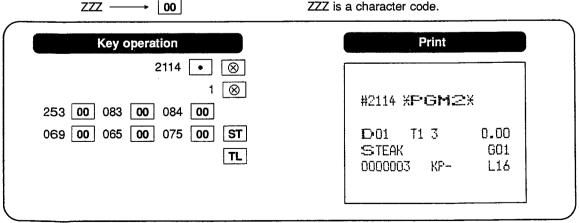
1) When entering characters by using character keys: (Refer to page 17.)

y: character key

- Find out desired character key(s) on the alphanumeric key sheet and press the key(s).
- If you press the (DC) key (double-size character key) before pressing character key, that character is printed in double size.
- If you press the sum key, the following characters are printed in small letters. And if you press the sum key again, the following characters are printed in capital letters.



2) When entering characters by using corresponding character codes (see the alphanumeric character code table on the next page.)



# ALPHANUMERIC CHARACTER CODE TABLE

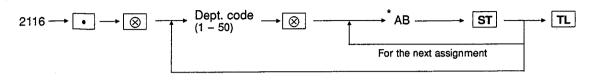
|      |         |      |       |      |       |      |       | Γ    |             |      |       |
|------|---------|------|-------|------|-------|------|-------|------|-------------|------|-------|
| CODE | Char.   | CODE | Char. | CODE | Char. | CODE | Char. | CODE | Char.       | CODE | Char. |
| 001  | á       | 033  | ı     | 065  | Α     | 097  | а     | 129  | 1           | 161  | 0     |
| 002  | â       | 034  | "     | 066  | В     | 098  | b     | 130  | 2           | 162  | Г     |
| 003  | ê       | 035  | #     | 067  | С     | 099  | С     | 131  | 3           | 163  |       |
| 004  | î       | 036  | \$    | 068  | D     | 100  | d     | 132  | 4           | 164  |       |
| 005  | ì       | 037  | %     | 069  | E     | 101  | е     | 133  | 1/2         | 165  | •     |
| 006  | í       | 038  | &     | 070  | F     | 102  | f     | 134  | F/T         | 176  |       |
| 007  | ô       | 039  | ,     | 071  | G     | 103  | g     | 135  | <b>←</b>    | 177  | Á     |
| 008  | ó       | 040  | (     | 072  | Н     | 104  | h     | 136  | <b>→</b>    | 178  | ĺ     |
| 009  | û       | 041  | )     | 073  | I     | 105  | i     | 137  | S           | 192  | Ċ     |
| 010  | ú       | 042  | *     | 074  | J     | 106  | j     | 138  | <u>S</u>    | 193  | i     |
| 011  | œ       | 043  | +     | 075  | К     | 107  | k     | 139  | ◀_          | 194  | Ġ     |
| 012  | ű       | 044  | ,     | 076  | L     | 108  | l     | 140  | <b>&gt;</b> | 195  | ş     |
| 013  | ú       | 045  | _     | 077  | М     | 109  | m     | 141  | F           | 224  | *     |
| 014  | ő       | 046  |       | 078  | N     | 110  | n     | 142  | т           | 225  | §     |
| 015  | ó       | 047  | /     | 079  | 0     | 111  | 0     | 143  | <b>1</b>    | 226  | Ø     |
| 016  | ٨       | 048  | 0     | 080  | Р     | 112  | р     | 144  | Ç           | 228  | 1     |
| 017  | Ψ       | 049  | 1     | 081  | Q     | 113  | q     | 145  | •           | 229  | ]     |
| 018  | Γ       | 050  | 2     | 082  | R     | 114  | r     | 146  | ن           | 230  | [     |
| 019  |         | 051  | 3     | 083  | s     | 115  | s     | 147  | ù           | 231  | **    |
| 020  | Ω       | 052  | 4     | 084  | Т     | 116  | t     | 148  | à           | 232  | ä     |
| 021  | Δ       | 053  | 5     | 085  | U     | 117  | u     | 149  | Æ           | 233  | Ö     |
| 022  | Θ       | 054  | 6     | 086  | V     | 118  | V     | 150  | ø           | 234  | ü     |
| 023  | Ξ       | 055  | 7     | 087  | W     | 119  | w     | 151  | Å           | 235  | æ     |
| 024  | π       | 056  | 8     | 088  | Х     | 120  | x     | 152  | n           | 236  | å     |
| 025  | Σ       | 057  | 9     | 089  | Υ     | 121  | у     | 153  | é           | 237  | É     |
| 026  | Υ       | 058  | :     | 090  | Z     | 122  | Z     | 154  | è           | 238  | ñ     |
| 027  | Φ       | 059  | ;     | 091  | Ä     | 123  | {     | 155  | Pt          | 253  | DC*   |
| 028  | Ű       | 060  | <     | 092  | Ö     | 124  | 1     | 156  | i           |      |       |
| 029  | Ú       | 061  | =     | 093  | Ü     | 125  | }     | 157  | Ñ           |      |       |
| 030  | ő       | 062  | >     | 094  | ٨     | 126  | β     | 158  | ò           |      |       |
| 031  | Ó       | 063  | ?     | 095  | _     | 127  | ¢     | 159  | £           |      |       |
| 032  | (SPACE) | 064  | @     | 096  | •     | 128  | !!    | 160  | ¥           |      |       |

\*DC: Double Character Code

### (6) Assigning departments to groups (PGM2 mode)

You can assign departments to a maximum of 14 groups.

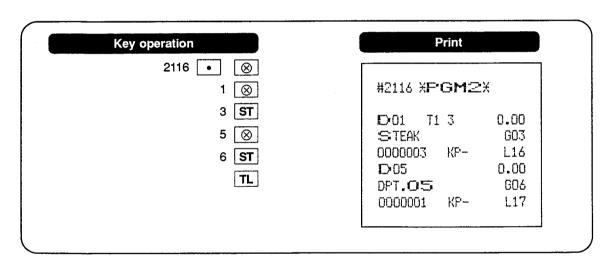
### **Procedure**



\*AB: Dept. (+) 1 through 9 (groups 1 through 9)
Dept. (-) 10
Hash (+) dept. 11
Hash (-) dept. 12

Bottle Return (+) dept. 13

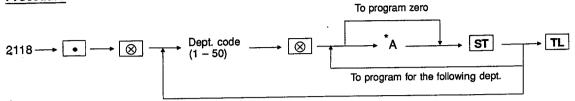
Bottle Return (-) dept. 14



# (7) Assigning print stations to departments (PGM2 mode)

When you use a remote printer (kitchen printer), consult your local dealer.

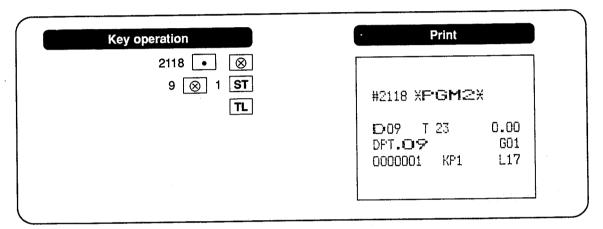
### **Procedure**



\*A: To select no output, enter 0.

To select kitchen printer, enter 1.

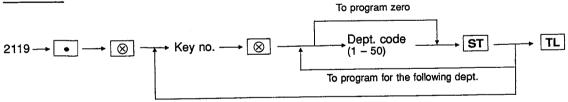
To select receipt printer, enter 2.

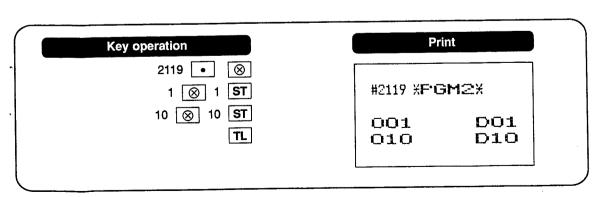


# (8) Positioning of department keys (PGM2 mode)

Assign department codes to direct (menu) keys.

### **Procedure**





### 5. Programming for PLUs

A standard model is equipped with 274 PLUs.

Your machine has two kinds of PLU registration ways.

Direct PLU registration: Accomplished by depressing item key (direct PLU key) directly.

Indirect PLU registration: Accomplished by making an entry of PLU code.

Each PLU requires you to program the following.

• PLU code (4 digits)

### • PLU type (PLU, subdepartment, PLU/subdepartment, prohibit, or delete mode)

- (i) If the PLU mode (i.e. automatic preset amount entry) is selected, individual PLU entries can be made by entering the assigned code and depressing the PLUSUB key (or by depressing a direct PLU key without any code entry).
- (ii) If the subdepartment mode is selected, the entry of the assigned code and depression of the PLUSUB key must then be followed by the entry of a unit price.
- (iii) If the PLU/subdepartment mode is selected, follow up the described entries under (i) and (ii).
- (iv) If the prohibit mode is selected, the assigned PLU and/or subdepartment code cannot be entered. This mode does not clear the PLU/subdepartment program data.
- (v) If the delete mode is selected, data programmed for each PLU is deleted.

### Associated department

When a PLU is associated with a department, the following functions of the PLU depend on the programming for the department.

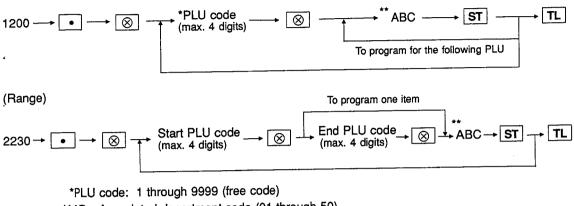
- (i) Grouping (group 1 through group 14)
- (ii) Single item cash sale/single item finalize
- (iii) HALO (for subdepartment only)
- (iv) Item validation print compulsory/non-compulsory
- Unit price (max. 6 digits)
- · Base quantity for split-pricing entries (max. 2 digit)
- Sign (+/-)

The function of every PLU/subdepartment varies according to the combination of its sign and its associated department's sign as follows.

|       | Sign         | Function of PLU/subdepartment                       |
|-------|--------------|---|
| Dept. | PLU/subdept. | rundion of FLo/subdepartment                        |
| +     | +            | Serves as a normal plus PLU/subdept.                |
|       | _            | Serves as a normal minus PLU/subdept.               |
| +     | ****         | Accepts store coupon entries, but not split-pricing |
| _     | +            | Not valid; not accepted.                            |

- Tax status
- Item label (8 characters, option: 16 characters)
- Set PLU (up to 10 PLUs can be linked to each set PLU.)
- Link PLU (up to 5 PLUs can be tied to each link PLU.)
- · PLU level start number
- · Print station
- · Positioning of direct PLU keys
- Stock quantity (max. 7 digits)

# (1) Definition of PLU codes and department assignment (PGM1 or PGM2 mode) Procedure



\*\*AB: Associated department code (01 through 50)

C: PLU type

To select the deletion mode, enter 4.

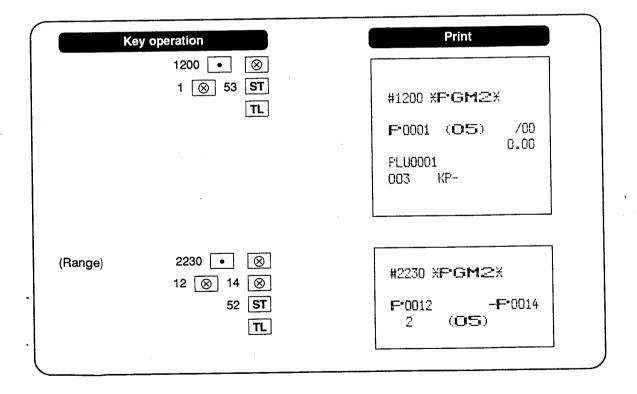
To select the PLU/subdept. mode, enter 3.

To select the PLU mode, enter 2.

To select the subdept. mode, enter 1.

To prohibit PLU/subdept., enter 0.

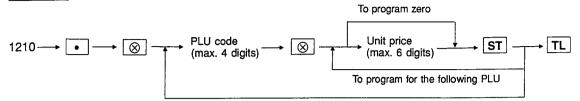
Note: Programming the PLU code 9999 automatically terminates the programming operation.



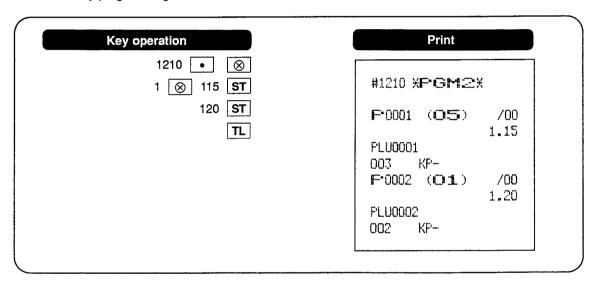
### (2) Programming of unit prices (PGM1 or PGM2 mode)

You can program a unit price for each PLU.

### **Procedure**

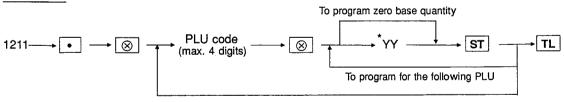


Note: When the programming for the largest one of those PLU codes defined in job #1200 is completed with depression of the ST key, the programming operation terminates automatically. This holds true of every programming for PLUs shown below.



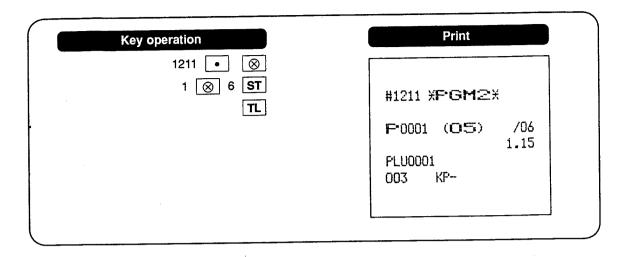
### (3) Programming of base quantity (PGM1 or PGM2 mode)

### **Procedure**

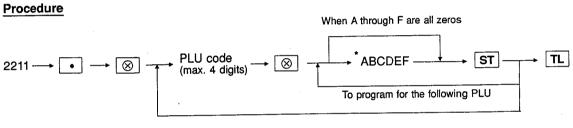


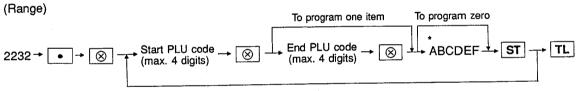
\*YY: Base quantity (two digits)

Program a base quantity for each PLU/subdepartment dedicated to split-pricing entries.



# (4) Programming of sign and tax status (PGM2 mode)





\*A: Sign

To set as plus PLU, enter 0, and to set as minus PLU, enter 1.

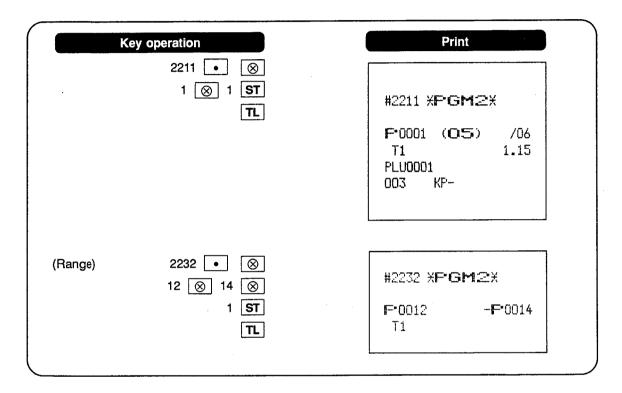
B: Not used (Enter 0.)

C, D, E and F: Tax status

|        | Tax status      |              |           |       |  |  |
|--------|-----------------|--------------|-----------|-------|--|--|
| Item - | Ordinary system | Swiss system | Selection | Entry |  |  |
|        |                 | VAT1         | YES       | 1     |  |  |
| C      |                 | VAII         | NO        | 0     |  |  |
|        |                 | TAVO         | YES       | 1     |  |  |
| D      | VAT3 or TAX3    | TAX3         | NO        | 0     |  |  |
| E      |                 | TAVO         | YES       | 1     |  |  |
|        | VAT2 or TAX2    | TAX2         | NO        | 0     |  |  |
|        |                 | TAVA         | YES       | 1     |  |  |
| F      | VAT1 or TAX1    | TAX1         | NO        | 0     |  |  |

- Note 1: Item C is programmable only for the Swiss tax system. If you do not select this system, enter 0.
- Note 2: When the Swiss tax system has been selected, one of Tax3 (D), Tax2 (E), and Tax1 (F) can be selected in combination with VAT1 (C).

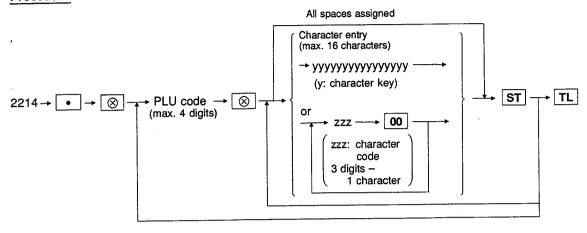
  Example: CDEF = 1001, 1010 or 1100
- Note 3: The tax system of your machine has been factory-set to automatic VAT1 3. If you desire to select any of automatic tax 1 3, manual VAT1 3, manual VAT1, manual tax 1 3, and Swiss tax systems, contact your dealer.



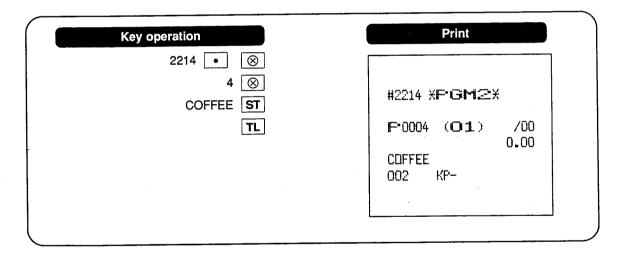
### (5) Programming of PLU text (PGM2 mode)

You can program a maximum of 16 characters (standard: 8 characters, option: 16 characters) for each PLU (refer to page 17.)

### **Procedure**



Note: If you program with character keys and you enter a wrong character, you can delete it with the (BACK) key. The (BACK) key deletes the last character.

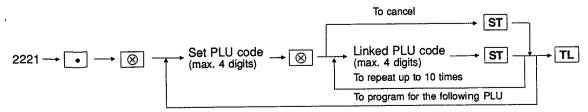


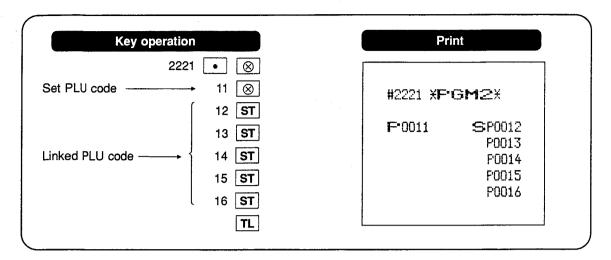
### (6) Programming of set PLUs (PGM2 mode)

When two or more menu items, consisting of some PLUs, are to be programmed together, set PLUs should be specified.

Up to 10 PLUs can be linked to each set PLU.

### Procedure



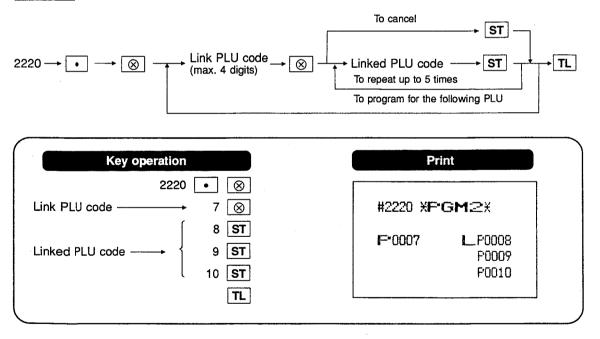


- Note 1) Each linked PLU can be programmed in two or more set PLUs.
- Note 2) Programming various parameters (e.g. associate dept., unit price, text...) of the set PLU is carried out the same way as for ordinary PLU.

### (7) Programming of link PLUs (PGM2 mode)

PLU is able to link with any other one (e.g. to link bottle deposit). However, the link level has a maximum of 5 levels.

### **Procedure**



- Note 1) Each linked PLU can be programmed in two or more link PLUs.
- Note 2) Programming various parameters (e.g. associate dept., unit price, text...) of the link PLU is carried out the same way as for ordinary PLU.

#### (8) Programming of PLU level shift codes (PGM2 mode)

You can program the shift PLU code for each PLU level.

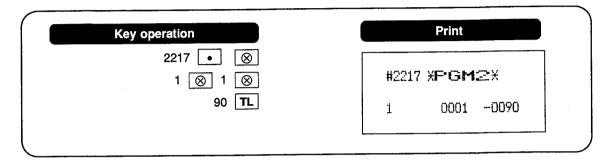
#### Procedure

2217 $\rightarrow$   $\bullet$   $\rightarrow$   $\otimes$   $\rightarrow$  \* Level no.  $\rightarrow$   $\otimes$   $\rightarrow$  \*\*\* Start PLU code  $\rightarrow$   $\otimes$   $\rightarrow$  \*\*\* End PLU code  $\rightarrow$  TL

\* Level no.: 1 through 3

\*\* Start PLU code: 1 through 9999

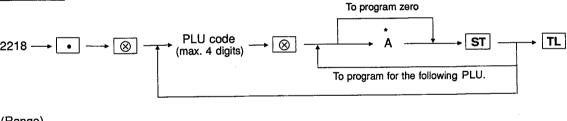
\*\*\* End PLU code: 1 through 9999

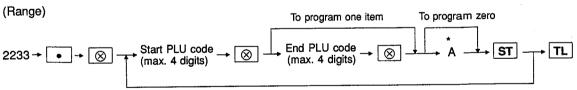


#### (9) Assigning print stations to PLUs (PGM2 mode)

When you use a remote printer (kitchen printer), consult your local dealer.

#### Procedure

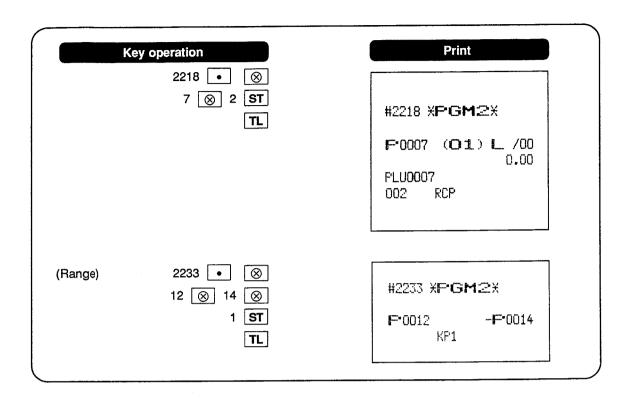




\*A: To select no output, enter 0.

To select kitchen printer, enter 1.

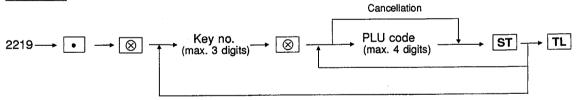
To select receipt printer, enter 2.

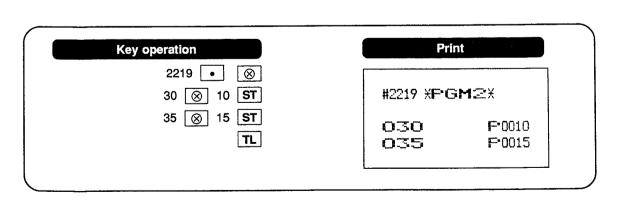


#### (10) Positioning of direct PLU keys (PGM2 mode)

You can assign PLU codes to fixed keys and use those keys as direct PLU keys.

#### **Procedure**

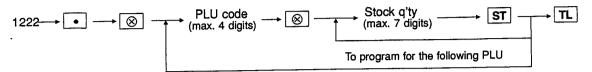


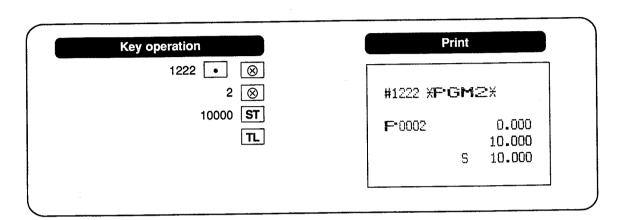


## (11) Programming of stock quantity (PGM1 or PGM2 mode)

• Assigning a new stock quantity (overwrite)

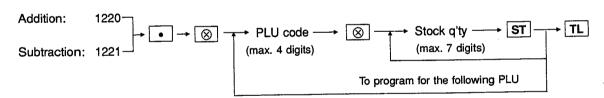
#### Procedure



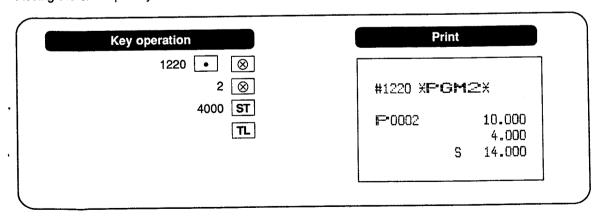


Adding or subtracting a stock quantity

#### **Procedure**



Adding the stock quantity



#### Subtracting the stock quantity

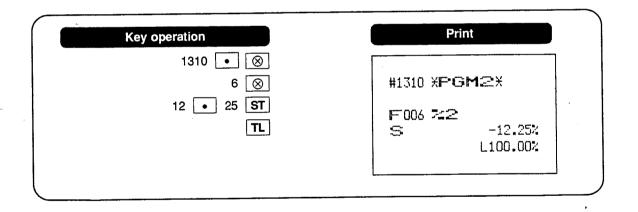
| Key operation           | Print                   |  |
|-------------------------|-------------------------|--|
| 1221 •   <u>\oldots</u> | #1221 XPGM2X            |  |
| 1500 <b>ST</b>          | F-0002 14.000<br>-1.500 |  |
|                         | S 12.500                |  |

# 6. Function parameter programming

(1) Programming of deduction amount, premium and discount rate, and currency exchange rate (PGM1 or PGM2 mode)

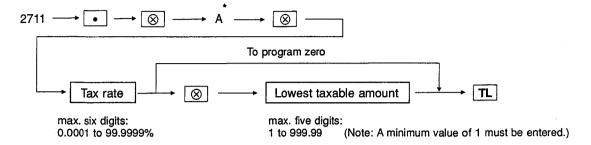
# Procedure To program zero Percentage or Amount TL

| Function                               | Function no.     | Percentage or Amount   |
|--|------------------|--|
| ⊙ 1<br>⊙ 2<br>⊙ 3<br>⊙ 4               | 1<br>2<br>3<br>4 | a maximum of 6 digits<br>(0 to 999999)                                     |
| % 1<br>% 2<br>% 3<br>% 4               | 5<br>6<br>7<br>8 | a maximum of 3-digit integer<br>+ 2-digit decimal<br>(0.00 to 100.00)      |
| EXCHANGE 1<br>EXCHANGE 2<br>EXCHANGE 3 | 51<br>52<br>53   | a maximum of 4-digit integer<br>+ 4-digit decimal<br>(0.0000 to 9999.9999) |

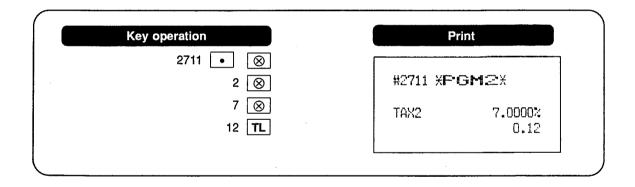


#### (2) Programming of tax rate (PGM2 mode)

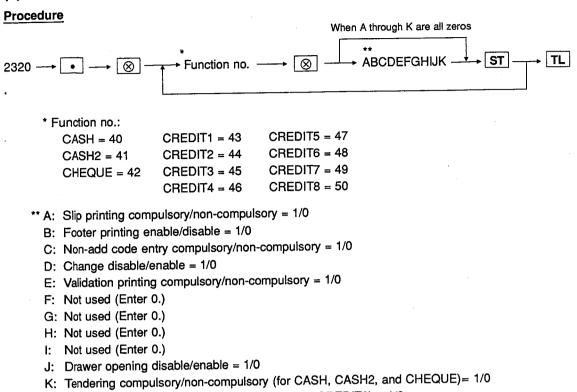
#### **Procedure**

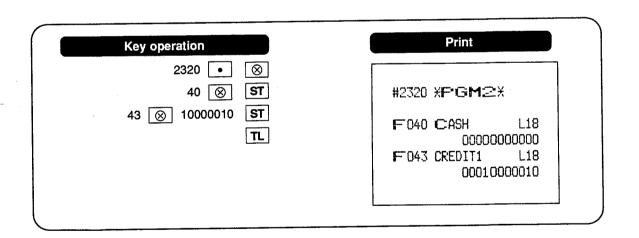


- \*A: When you program a tax rate as tax rate 1, enter "1"; when you program it as tax rate 2, enter "2"; when you program it as tax rate 3, enter "3"; and when you program it as tax rate 4, enter "4".
- Note 1: The lowest taxable amount is valid only when you select add on tax system. If you select VAT (value added tax) system, it is invalid.
- Note 2: If you make an incorrect entry before pressing the third igotimes key in programming a tax rate, cancel it with the igotimes key; and if you make an error after pressing the third igotimes key, cancel it with the igotimes key. Then program again from the beginning correctly.



### (3) Function programming for the finalization keys (PGM2 mode)





compulsory/prohibit (for CREDIT1 to CREDIT8) = 1/0

#### (4) Programming of sign (for %, $\bigcirc$ ) (PGM2 mode)

#### Procedure

When A through F are all zeros

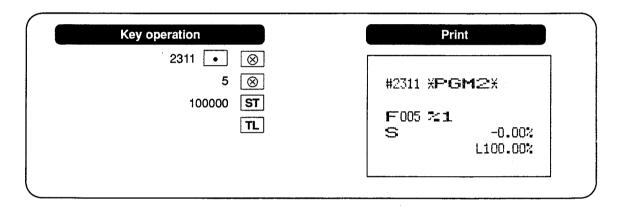
\* Function no. 

\* ABCDEF TL

- \* Function no.:
  - ⊕ 1 = 1

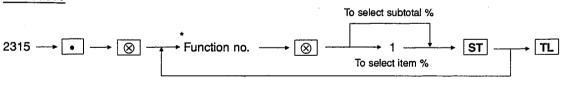
%1 = 5

- 2 = 2
- %2 = 6
- $\bigcirc$  3 = 3  $\bigcirc$  4 = 4
- %3 = 7%4 = 8
- \*\* A: Sign -/+ = 1/0
  - B, C, D, E, and F: Not used (Enter 0 for B, C, D, E, and F.)

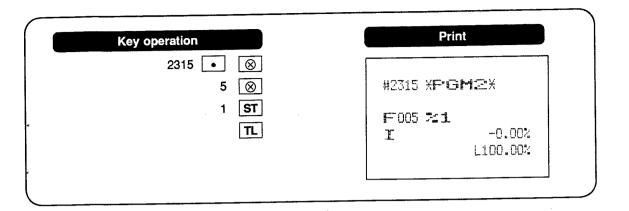


#### (5) Item % or subtotal % selection (PGM2 mode)

#### **Procedure**

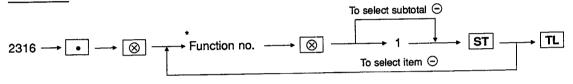


- \* Function no.:
  - %1 = 5
- %2 = 6
- %3 = 7
- %4 = 8



# (6) Item $\bigcirc$ or subtotal $\bigcirc$ selection (PGM2 mode)





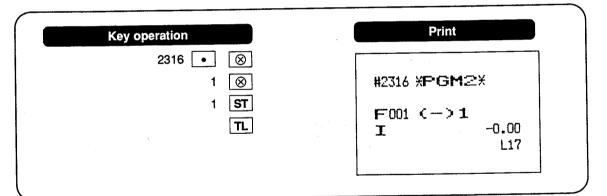
\* Function no.:

□ 1 = 1

⊕ 2 = 2

 $\bigcirc$  3 = 3

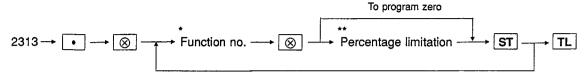
⊕ 4 = 4



#### (7) Programming of HALO for percent calculation (PGM2 mode)

Your machine allows you to program the upper limit for percent calculation.

#### **Procedure**

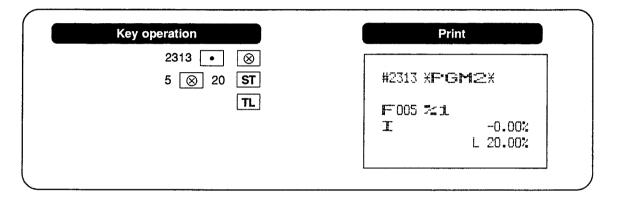


Function no.:

$$%3 = 7$$

$$%4 = 8$$

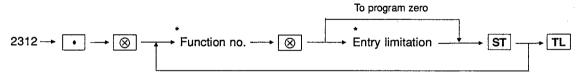
\*\* Percentage limitation: 0.00 through 100.00



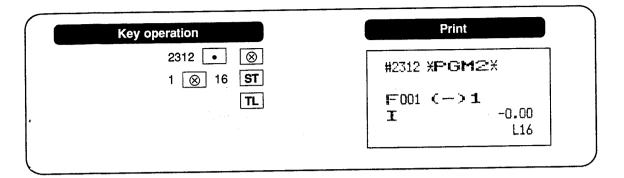
#### (8) Programming of HALO for deduction, received on account, and paid out (PGM2 mode)

Your machine allows you to program the upper limit for deduction, received on account, and paid out.

#### **Procedure**



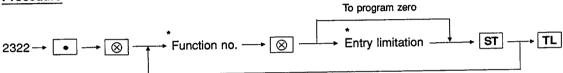
| Function                 | Function no.     | Entry limitation  |
|--------------------------|------------------|---|
| ⊙ 1<br>⊙ 2<br>⊙ 3<br>⊙ 4 | 1<br>2<br>3<br>4 | 2 digits (AB) AB is the same as A x 10 <sup>B</sup> A: Significant digit (1 through 9) B: 0 through 7 |
| RA<br>RA2                | 35<br>36         | 2 digits (AB)<br>AB is the same as A x 10 <sup>B</sup>  |
| PO<br>PO2                | 37<br>38         | A: Significant digit (1 through 9) B: 0 through 8   |



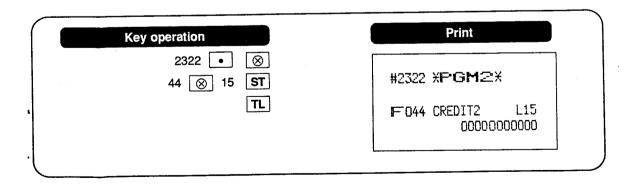
# (9) Programming of HALO for finalization keys (PGM2 mode)

Your machine allows you to program the upper limit for the finalization keys.





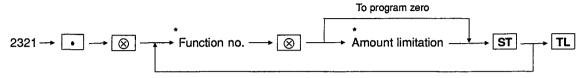
| Function  | Function no.                                 | Entry limitation  |
|---|--|---|
| CASH<br>CASH2   | 40<br>41                                     |   |
| CHECK   | 42   | O digito (AB)   |
| CREDIT 1 CREDIT 2 CREDIT 3 CREDIT 4 CREDIT 5 CREDIT 6 CREDIT 7 CREDIT 8 | 43<br>44<br>45<br>46<br>47<br>48<br>49<br>50 | 2 digits (AB) AB is the same as A x 10 <sup>B</sup> A: Significant digit (1 through 9) B: 0 through 8 |



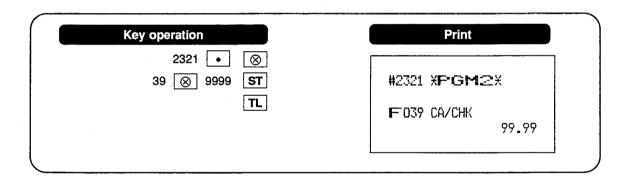
# (10) Programming of HALO for cash in drawer, cheque change, and cheque cashing (PGM2 mode)

Your machine allows you to program the upper limit for cash in drawer, cheque change, and cheque cashing.

#### **Procedure**

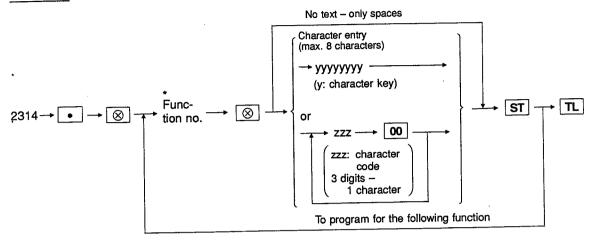


| Function              | Function no. | Amount limitation                        |
|-----------------------|--------------|--|
| CID (sentinel amount) | 58           | max. 9 digits<br>0.00 through 9999999.99 |
| Cheque change         | 61           | max. 8 digits                            |
| Cheque cashing        | 39           | 0.00 through 999999.99                   |



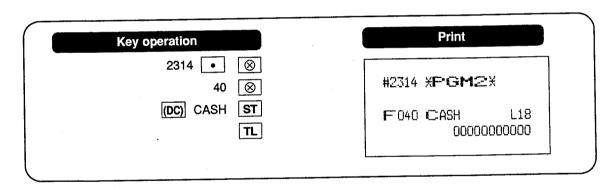
### (11) Programming of function text (PGM2 mode)

#### **Procedure**



\* Function no.: See "LIST OF FUNCTION TEXTS" shown on the next page.

Note: If you program with character keys and you enter a wrong character, you can delete it with the (BACK SPACE) key. The (BACK SPACE) key deletes the last character.



#### LIST OF FUNCTION TEXTS

| 1   | Function no. | Function            | Default text  |
|---|--------------|---------------------|---------------|
| 3   | 1            | ⊝1                  | () 1          |
| 4   | 2            | ⊝ 2                 | (-) 2         |
| 5 % 1 % 2 % 2 7 % 3 % 3 % 4 9 SET PLU DISCOUNT SET PLU - 10 DIFFER DIFFER 11 TAXABLE 1 SUBTOTAL TAX1 ST 12 TAXABLE 2 SUBTOTAL TAX2 ST 13 TAXABLE 3 SUBTOTAL TAX3 ST 14 TAXABLE SUBTOTAL TAX3 ST 15 VATTAX 1 VAT 1 16 VATTAX 2 VAT 2 17 VATTAX 3 VAT 3 18 VATTAX 3 VAT 3 19 NET 1 NET 1 20 NET 2 NET 2 21 COUPON-LIKE PLU CP PLU 22 REFUND REFUND 23 C   | 3            | ⊝ 3                 | () 3          |
| 6  %2  %2  %3  7  %3  %3  %4  %6  3  8  %4  %4  %6  4  9  SET PLU DISCOUNT  SET PLU —  10  DIFFER  DIFFER  11  TAXABLE 1 SUBTOTAL  TAX1 ST  12  TAXABLE 2 SUBTOTAL  TAX2 ST  13  TAXABLE 3 SUBTOTAL  TAX3 ST  14  TAXABLE SUBTOTAL  TAX3 ST  15  VATTAX 1  VAT 1  16  VATTAX 2  VAT 2  17  VATTAX 3  VAT 3  18  VATTAX 3  VAT 3  19  NET 1  NET 1  20  NET 2  NET 2  21  COUPON-LIKE PLU  CP PLU  22  REFUND  REFUND  23  | 4            | ⊖ 4                 | (-) 4         |
| 7   | 5            | % 1                 | % 1           |
| 8  %4  %4  %4  %4  %4  %4  %4  %4  %4  %  | 6            | % 2                 | % 2           |
| 9 SET PLU DISCOUNT 10 DIFFER 11 TAXABLE 1 SUBTOTAL 11 TAXABLE 1 SUBTOTAL 12 TAXABLE 2 SUBTOTAL 13 TAXABLE 3 SUBTOTAL 14 TAXABLE SUBTOTAL 15 VAT/TAX 1 16 VAT/TAX 1 17 VAT/TAX 2 18 VAT/TAX 3 18 VAT/TAX 1 19 NET 1 20 NET 2 21 COUPON-LIKE PLU 22 REFUND 23 CO 24 COMODE TOTAL 25 MGR CO 26 SUBTOTAL 27 HASH CO 28 HASH REFUND 30 SLIP COUNTER 31 NO SALE 32 GUEST CHECK COUNTER 33 PBAL 34 NBAL  ***NBAL  ***NBAL  | . 7          | % 3                 | % 3           |
| 10 DIFFER  11 TAXABLE 1 SUBTOTAL  12 TAXABLE 2 SUBTOTAL  13 TAXABLE 3 SUBTOTAL  14 TAXABLE 3 SUBTOTAL  15 VAT/TAX 1  16 VAT/TAX 2  17 VAT/TAX 3  18 VAT/TAX  19 NET 1  20 NET 2  21 COUPON-LIKE PLU  22 REFUND  23 C>  24 C>MODE TOTAL  25 MGR ←>  26 SUBTOTAL  27 HASH ←>  28 HASH REFUND  29 VP COUNTER  30 SLIP COUNTER  31 NO SALE  32 GUEST CHECK COUNTER  34 NBAL  11 TAXABLE 2 SUBTOTAL  12 TAX3 ST  13 TAXAST  14 TAX3 ST  15 TAX3 ST  16 VAT/TAX 9  VAT 1  VAT 1  VAT 1  VAT 2  VAT 2  VAT 2  VAT 2  VAT 3  VAT 3  VAT 3  VAT 3  VAT 1  NET 1  CP PLU  CP PL | 8            | % 4                 | % 4           |
| 11 TAXABLE 1 SUBTOTAL  12 TAXABLE 2 SUBTOTAL  13 TAXABLE 3 SUBTOTAL  14 TAXABLE SUBTOTAL  15 VAT/TAX 1  16 VAT/TAX 2  17 VAT/TAX 3  18 VAT/TAX  19 NET 1  20 NET 2  21 COUPON-LIKE PLU  22 REFUND  23 CO  24 COMODE TOTAL  25 MGR CO  26 SUBTOTAL  27 HASH CO  28 HASH REFUND  29 VP COUNTER  30 SLIP COUNTER  31 NO SALE  32 GUEST CHECK COUNTER  34 NBAL  13 TAXABLE 1 SUBTOTAL  14 TAXABLE 2 SUBTOTAL  15 TAX3 ST  16 TAX3 ST  17 TAX3 ST  18 TAX3 ST  18 TAX3 ST  18 TAX3 ST  19 TAX4 ST  10 TAX9 ST  11 TAX1 ST  12 TAX9 ST  14 TAX9 ST  15 TAX9 ST  16 TAX9 ST  17 TAX9 ST  16 TAX9 ST  17 TAX9 ST  16 TAX9 ST  16 TAX9 ST  16 TAX9 ST  17 TAX9 ST  16 TAX1 ST  16 TAX9 ST  17 TAX9 | 9            | SET PLU DISCOUNT    | SET PLU –     |
| 12 TAXABLE 2 SUBTOTAL  13 TAXABLE 3 SUBTOTAL  14 TAXABLE SUBTOTAL  15 VAT/TAX 1  16 VAT/TAX 2  17 VAT/TAX 3  18 VAT/TAX  19 NET 1  20 NET 2  21 COUPON-LIKE PLU  22 REFUND  23 CO  24 COMODE TOTAL  25 MGR CO  26 SUBTOTAL  27 HASH CO  28 HASH REFUND  29 VP COUNTER  30 SLIP COUNTER  31 NO SALE  32 GUEST CHECK COUNTER  34 NBAL  ***NBAL  | 10           | DIFFER              | DIFFER        |
| 13 TAXABLE 3 SUBTOTAL  14 TAXABLE SUBTOTAL  15 VAT/TAX 1  16 VAT/TAX 2  17 VAT/TAX 3  18 VAT/TAX  19 NET 1  20 NET 2  21 COUPON-LIKE PLU  22 REFUND  23 CO  24 COMODE TOTAL  25 MGR CO  26 SUBTOTAL  27 HASH CO  28 HASH REFUND  28 HASH REFUND  29 VP COUNTER  20 VAT  21 VAT  22 SBTL CO  23 SBTL CO  24 COMODE TOTAL  25 MGR CO  26 SUBTOTAL CO  27 HASH CO  28 HASH REFUND  29 VP COUNTER  29 VP COUNTER  30 SLIP COUNTER  31 NO SALE  32 GUEST CHECK COUNTER  33 PBAL  ****NBAL  | 11           | TAXABLE 1 SUBTOTAL  | TAX1 ST       |
| 14 TAXABLE SUBTOTAL  15 VAT/TAX 1  16 VAT/TAX 2  17 VAT/TAX 3  18 VAT/TAX  19 NET 1  20 NET 2  21 COUPON-LIKE PLU  22 REFUND  23 C  24 C→ MODE TOTAL  25 MGR C→  26 SUBTOTAL C→  27 HASH C→  28 HASH REFUND  28 HASH REFUND  29 VP COUNTER  29 VP COUNTER  30 SLIP COUNTER  31 NO SALE  32 GUEST CHECK COUNTER  34 NBAL  ***NBAL  | 12           | TAXABLE 2 SUBTOTAL  | TAX2 ST       |
| 15 VAT/TAX 1 VAT 1 16 VAT/TAX 2 VAT 2 17 VAT/TAX 3 VAT 3 18 VAT/TAX VAT 19 NET 1 NET 1 20 NET 2 NET 2 21 COUPON-LIKE PLU CP PLU 22 REFUND REFUND 23 ℃ 24 ❤️ MODE TOTAL ❤️ MODE 25 MGR ❤️ MGR ❤️ 26 SUBTOTAL ❤️ SBTL ❤️ 27 HASH ❤️ HASH ❤️ 28 HASH REFUND HASH RF 29 VP COUNTER VP CNT 30 SLIP COUNTER 31 NO SALE NO SALE 32 GUEST CHECK COUNTER 34 NBAL ***NBAL   | 13           | TAXABLE 3 SUBTOTAL  | TAX3 ST       |
| 16 VAT/TAX 2 VAT 2  17 VAT/TAX 3 VAT 3  18 VAT/TAX VAT  19 NET 1 NET 1  20 NET 2 NET 2  21 COUPON-LIKE PLU CP PLU  22 REFUND REFUND  23 ✓ ✓ ✓ ✓ MODE  24 ✓ MODE TOTAL ✓ MODE  25 MGR ✓ MGR ✓ SBTL ✓ HASH FER YP COUNTER  29 VP COUNTER VP CNT  30 SLIP COUNTER SLIP CNT  31 NO SALE NO SALE  32 GUEST CHECK COUNTER G. C. CNT  33 PBAL ***PBAL  34 NBAL ***NBAL   | 14           | TAXABLE SUBTOTAL    | TAX ST        |
| 17 VAT/TAX 3 VAT  18 VAT/TAX VAT  19 NET 1 NET 1  20 NET 2 NET 2  21 COUPON-LIKE PLU CP PLU  22 REFUND REFUND  23 C CO  24 C MODE TOTAL MGR C SBTL C | 15           | VAT/TAX 1           | VAT 1         |
| 18       VAT/TAX       VAT         19       NET 1       NET 1         20       NET 2       NET 2         21       COUPON-LIKE PLU       CP PLU         22       REFUND       REFUND         23       CO       CO         24       CMODE TOTAL       MODE         25       MGR CO       MGR CO         26       SUBTOTAL CO       SBTL CO         27       HASH CO       HASH REF         28       HASH REFUND       HASH RF         29       VP COUNTER       VP CNT         30       SLIP COUNTER       SLIP CNT         31       NO SALE       NO SALE         32       GUEST CHECK COUNTER       G. C. CNT         33       PBAL       ****PBAL         34       NBAL       ****NBAL   | 16           | VAT/TAX 2           | VAT 2         |
| 19 NET 1 20 NET 2  NET 2  11 COUPON-LIKE PLU 22 REFUND 23   | 17           | VAT/TAX 3           | VAT 3         |
| 20 NET 2 21 COUPON-LIKE PLU 22 REFUND 23  | 18           | VAT/TAX             | VAT           |
| 21       COUPON-LIKE PLU       CP PLU         22       REFUND       REFUND         23       C>       C>         24       C> MODE TOTAL       MODE         25       MGR C>       MGR C>         26       SUBTOTAL C>       SBTL C>         27       HASH C>       HASH RF         28       HASH REFUND       HASH RF         29       VP COUNTER       VP CNT         30       SLIP COUNTER       SLIP CNT         31       NO SALE       NO SALE         32       GUEST CHECK COUNTER       G. C. CNT         33       PBAL       ***PBAL         34       NBAL       ***NBAL   | 19           | NET 1               | NET 1         |
| 22       REFUND         23       ✓         24       ✓ MODE TOTAL       ✓ MODE         25       MGR ✓       MGR ✓         26       SUBTOTAL ✓       SBTL ✓         27       HASH ✓       HASH RF         28       HASH REFUND       HASH RF         29       VP COUNTER       VP CNT         30       SLIP COUNTER       SLIP CNT         31       NO SALE       NO SALE         32       GUEST CHECK COUNTER       G. C. CNT         33       PBAL       ***PBAL         34       NBAL       ***NBAL  | 20           | NET 2               | NET 2         |
| 22 REFUND 23  | 21           | COUPON-LIKE PLU     | CP PLU        |
| 24  | 22           | REFUND              | REFUND        |
| 25 MGR ↔ MGR ↔ SBTL ↔  26 SUBTOTAL ↔ SBTL ↔  27 HASH ↔ HASH ↔ HASH RF  28 HASH REFUND HASH RF  29 VP COUNTER VP CNT  30 SLIP COUNTER SLIP CNT  31 NO SALE NO SALE  32 GUEST CHECK COUNTER G. C. CNT  33 PBAL ***PBAL  34 NBAL ***NBAL   | 23           | S                   | S             |
| 26       SUBTOTAL ↔       SBTL ↔         27       HASH ↔       HASH ↔         28       HASH REFUND       HASH RF         29       VP COUNTER       VP CNT         30       SLIP COUNTER       SLIP CNT         31       NO SALE       NO SALE         32       GUEST CHECK COUNTER       G. C. CNT         33       PBAL       ***PBAL         34       NBAL       ***NBAL  | 24           | ∽ MODE TOTAL        | <u>∽</u> MODE |
| 27       HASH ♥         28       HASH REFUND       HASH RF         29       VP COUNTER       VP CNT         30       SLIP COUNTER       SLIP CNT         31       NO SALE       NO SALE         32       GUEST CHECK COUNTER       G. C. CNT         33       PBAL       ***PBAL         34       NBAL       ***NBAL  | 25           | MGR ∽               | MGR ∽         |
| 28       HASH REFUND       HASH RF         29       VP COUNTER       VP CNT         30       SLIP COUNTER       SLIP CNT         31       NO SALE       NO SALE         32       GUEST CHECK COUNTER       G. C. CNT         33       PBAL       ***PBAL         34       NBAL       ***NBAL  | 26           | SUBTOTAL თ          | SBTL ∽        |
| 29       VP COUNTER       VP CNT         30       SLIP COUNTER       SLIP CNT         31       NO SALE       NO SALE         32       GUEST CHECK COUNTER       G. C. CNT         33       PBAL       ***PBAL         34       NBAL       ***NBAL   | 27           | HASH თ              | HASH ∽        |
| 30         SLIP COUNTER         SLIP CNT           31         NO SALE         NO SALE           32         GUEST CHECK COUNTER         G. C. CNT           33         PBAL         ***PBAL           34         NBAL         ***NBAL  | 28           | HASH REFUND         | HASH RF       |
| 31         NO SALE         NO SALE           32         GUEST CHECK COUNTER         G. C. CNT           33         PBAL         ***PBAL           34         NBAL         ***NBAL   | 29           | VP COUNTER          | VP CNT        |
| 32 GUEST CHECK COUNTER G. C. CNT 33 PBAL ***PBAL 34 NBAL ***NBAL  | 30           | SLIP COUNTER        | SLIP CNT      |
| 33 PBAL ***PBAL 34 NBAL ***NBAL   | 31           | NO SALE             | NO SALE       |
| 34 NBAL ***NBAL   | 32           | GUEST CHECK COUNTER | G. C. CNT     |
|   | 33           | PBAL                | ***PBAL       |
| 35 RA <b>***</b> RA   | 34           | NBAL                | ***NBAL       |
|   | 35           | RA                  | ***RA         |

| Function no. | Function              | Default text |
|--------------|-----------------------|--------------|
| 36           | RA2                   | ***RA2       |
| 37           | РО                    | ***PO        |
| 38           | PO2                   | ***PO2       |
| 39           | CHEQUE CASHING        | CA/CHK       |
| 40           | CASH                  | CASH         |
| 41           | CASH 2                | CASH2        |
| 42           | CHECK                 | CHECK        |
| 43           | CREDIT 1              | CREDIT1      |
| 44           | CREDIT 2              | CREDIT2      |
| 45           | CREDIT 3              | CREDIT3      |
| 46           | CREDIT 4              | CREDIT4      |
| 47           | CREDIT 5              | CREDIT5      |
| 48           | CREDIT 6              | CREDIT6      |
| 49           | CREDIT 7              | CREDIT7      |
| 50           | CREDIT 8              | CREDIT8      |
| 51           | EXCHANGE 1            | EXCH1        |
| 52           | EXCHANGE 2            | EXCH2        |
| 53           | EXCHANGE 3            | EXCH3        |
| 54           | EXCHANGE 4            | EXCH4        |
| 55           | EXCHANGE 1 IS         | EXCH1 IS     |
| 56           | EXCHANGE 2 IS         | EXCH2 IS     |
| 57           | EXCHANGE 3 IS         | EXCH3 IS     |
| 58           | CASH IN DRAWER        | ***CiD       |
| 59           | CASH/CHEQUE IS        | CA/CH IS     |
| 60           | CASH/CHEQUE IN DRAWER | CA/CH ID     |
| 61           | CHEQUE/CHANGE         | CHK/CG       |
| 62           | GUEST                 | GUEST        |
| 63           | ORDER TOTAL           | ORDER TL     |
| 64           | PAID TOTAL            | PAID TL      |
| 65           | DOMESTIC CURRENCY 1   | DOM.CUR1     |
| 66           | DOMESTIC CURRENCY 2   | DOM.CUR2     |
| 67           | DOMESTIC CURRENCY 3   | DOM.CUR3     |
| 68           | DOMESTIC CURRENCY 4   | DOM.CUR4     |
| 69           | CHEQUE IN DRAWER      | *CH ID       |
| 70           | (+)DEPT TTL           | *DEPT TL     |
| . 71         | (–)DEPT TTL           | DEPT (-)     |

| Function no. | Function                   | Default text |
|--------------|----------------------------|--------------|
| 72           | BOTTLE DEPOSIT TTL         | *BTTL TL     |
| 73           | BOTTLE RETURN TTL          | BTTL ()      |
| 74           | HASH(+) TTL                | *HASH TL     |
| 75           | HASH() TTL                 | HASH (–)     |
| 76           | NET 1(TAXABLE 1-VAT 1)     | NET 1        |
| 77           | NET 2(TAXABLE 2-VAT 2)     | NET 2        |
| 78           | NET 3(TAXABLE 3-VAT 3)     | NET 3        |
| 79           | NET (TAXABLE -VAT )        | NET          |
| 80           | SUBTOTAL                   | SUBTOTAL     |
| 81           | MDS SUBTOTAL               | MDSE ST      |
| 82           | TOTAL                      | ***TOTAL     |
| 83           | CHANGE                     | CHANGE       |
| 84           | BALANCE                    | BALANCE      |
| 85           | SALES Q'TY                 | ITEMS        |
| 86           | PLU ST                     | PLU ST       |
| 87           | COPY RECEIPT TITLE         | COPY         |
| 88           | GUEST CHECK COPY TITLE     | G.C COPY     |
| 89           | SLIP PRINT JOURNAL MESSAGE | SLIP PR.     |
| 90           | SLIP NEXT PAGE             | NEXT P.      |
| 91           | AVERAGE                    | AVE.         |
| 92           | GROUP1                     | GROUP1       |
| 93           | GROUP2                     | GROUP2       |
| 94           | GROUP3                     | GROUP3       |
| 95           | GROUP4                     | GROUP4       |
| 96           | GROUP5                     | GROUP5       |
| 97           | GROUP6                     | GROUP6       |
| 98           | GROUP7                     | GROUP7       |
| 99           | GROUP8                     | GROUP8       |
| 100          | GROUP9                     | G ROUP9      |
| 101          | CCD                        | CCD          |
| 102          | CCD DIFFER                 | CCD DIF.     |
| 103          | CCD DIFFER TOTAL           | DIF. TL      |
| 104          | ORDER TOTAL-PAID TOTAL     | 0 – P        |
| 105          | DEPT REPORT TITLE          | DEPT         |
| 106          | GROUP REPORT TITLE         | GROUP        |
| 107          | PLU REPORT TITLE           | PLU          |

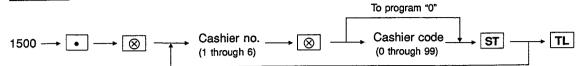
| Function no. | Function                 | Default text |
|--------------|--------------------------|--------------|
| 108          | STOCK REPORT TITLE       | STOCK        |
| 109          | TRANSACTION REPORT TITLE | TRANS.       |
| 110          | CID REPORT TITLE         | TL-ID        |
| 111          | CASHIER REPORT TITLE     | CASHIER      |
| 112          | HOURLY REPORT TITLE      | HOURLY       |
| 113          | DAILY NET REPORT TITLE   | DAILY        |
| 114          | SET PLU REPORT TITLE     | SET PLU      |
| 115          | TOTAL TAX                | TTL TAX      |
| 116          | NET WITHOUT TAX          | NET          |
| 117          | TOWN NAME 1              | TOWNNAME     |
| 118          | TOWN NAME 2              | TOWNNAME     |

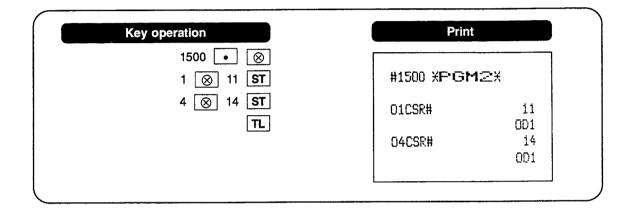
### 7. Cashier programming

#### (1) Cashier code definition (PGM1 or PGM2 mode)

You can assign a cashier code to each 6 cashier keys (standard: 4 cashier keys).

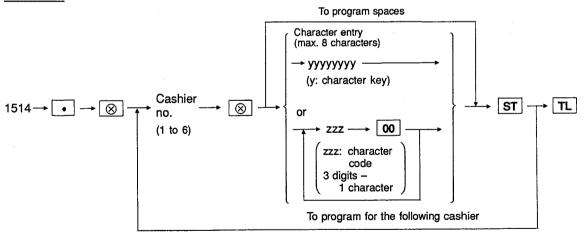
#### **Procedure**



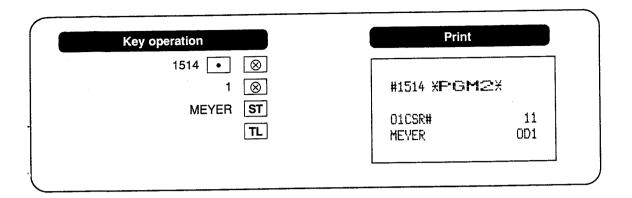


#### (2) Programming of the cashier name (PGM1 or PGM2 mode)

#### **Procedure**



Note: If you program with character keys and you enter a wrong character, you can delete it with the (BACK ) key. The (BACK ) key deletes the last character.

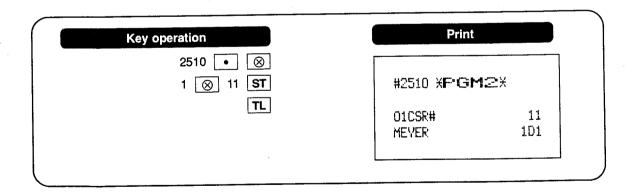


# (3) Functional programming to cashiers (PGM2 mode)

You can program functions A and B to individual cashiers.



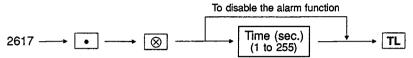
| Item | Function           | Selection         | Enter |
|------|--------------------|-------------------|-------|
|      | A Guest check copy | Disable           | 1     |
| A    |                    | Enable            | 0     |
| В    | Drawer no.         | Drawer 1-4/no use | 1-4/0 |

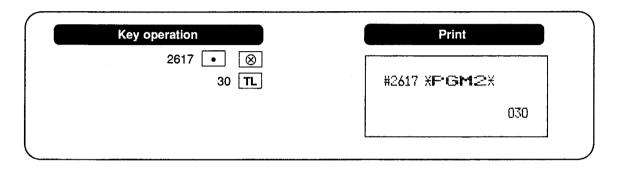


# 8. Programming alarm length of time with drawer opening (PGM2 mode)

If the drawer still remains open when a specified length of time has elapsed, your machine gives the alarm.

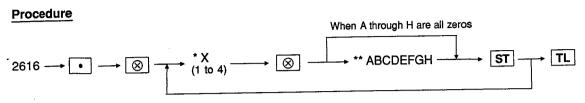
#### Procedure





Note: Your machine starts to monitor how long the drawer is kept open the moment the drawer is opened at the end of a transaction in the REG/VOID mode. It stops the time monitoring when a valid key (except the VP and RCPT, SLIP keys) is pressed for the next transaction. It restarts the time monitoring after that transaction is ended. You can stop the buzzer alarm by closing the drawer. No key entries can be made while the buzzer is sounding.

# 9. Programming for optional feature selection (PGM2 mode)



\* When X is 1:

\*\*

| Item                            | Description                   |                | Entry |
|---------------------------------|-------------------------------|----------------|-------|
|                                 |                               | Enable         | 0     |
| Α                               | OP X/Z report                 | Disable        | 1     |
|                                 |                               | Enable         | 0     |
| В                               | Paid out in the REG mode      | Disable        | 1     |
|                                 |                               | Enable         | 0     |
| D                               | Refund in the REG mode        | Disable        | 1     |
| E Direct void in the REG mode   |                               | Enable         | 0     |
|                                 | Direct void in the REG mode   | Disable        | 1     |
|                                 | Indirect void in the REG mode | Enable         | 0     |
| F                               |                               | Disable        | 1     |
| G Subtotal void in the REG mode |                               | Enable         | 0     |
|                                 | Subtotal void in the HEG mode | Disable        | 1     |
| H Refund validation printing    |                               | Non-compulsory | 0     |
|                                 | Compulsory                    | 1              |       |

C: Not used (Enter 0.)

#### \* When X is 2:

| ٠ | 4 |
|---|---|

| Item | Description                                |                       | Entry |
|------|--|-----------------------|-------|
| A    | The first item direct void                 | Enable                | 0     |
|      | The matitem direct void                    | Disable               | 1     |
| В    | PLU level shift mode*                      | Automatic return mode | 0     |
|      | 1 LO IEVEL SIMIL INOUG                     | Lock shift mode       | 1     |
| С    | Mode switch position for PLU level shift   | REG and MGR           | 0     |
| •    | viode switch position for 1 to lever shift | MGR                   | 1     |
| D    | Printing of the number of purchased items  | No                    | 0     |
|      | Timing of the number of purchased items    | Yes                   | 1     |
| E    | Time printing                              | Yes                   | 0     |
| -    | Time pinting                               | No                    | 1     |
| F    | Journal print form                         | Detailed              | 0     |
| •    | - Coarnai print ionii                      | Limited**             | 1     |
| G    | Item validation printing                   | Enable                | 0     |
|      | non valoation printing                     | Disable               | 1     |
| Н    | O validation printing                      | Non-compulsory        | 0     |
| ,,   | C variation printing                       | Compulsory            | 1     |

\*Note 1: Automatic return mode: The price/level status is once changed when the shift key has been pressed and is then resumed.

Lock shift mode:

The price/level status stays unchanged until the shift key is pressed again.

\*\*Note 2: When 1 is entered ("limited" is selected), plus (+) department and plus (+) PLU/sub-dept. are not printed.

#### \* When X is 3:

|  | * |
|--|---|
|  |   |
|  |   |
|  |   |

| ltem | Description                      |     | Entry |
|------|----------------------------------|-----|-------|
| С    | Zero skip in cashier report      | Yes | 0     |
|      |                                  | No  | 1     |
| D    | Zero skip in transaction report  | Yes | 0     |
|      | Zere stup in transaction report  | No  | 1     |
| Е    | Zero skip in department report   | Yes | 0     |
| _    | 2010 Step in Copes and the Copes | No  | 1     |
| F    | Zero skip in PLU report          | Yes | 0     |
|      |                                  | No  | 1     |
| G    | Zero skip in hourly report       | Yes | 0     |
|      | Zoro skip in riodity report      | No  | 1     |
| Н    | Zero skip in daily net report    | Yes | 0     |
|      |                                  | No  | 1     |

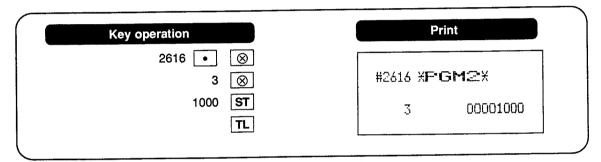
A and B: Not used (Enter 0 or nothing for A and B.)

#### \* When X is 4:

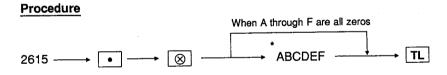
| Item       | Description  |                  | Entry |
|------------|--|------------------|-------|
|            |  | Yes              | 0     |
| С          | VAT amount printing on the receipt                               | No               | 1     |
|            |  | Yes              | 0     |
| . <b>D</b> | Taxable amount printing on the receipt                           | No               | 1     |
|            | Net amount printing on the receipt                               | Yes              | 0     |
| E          |  | No               | 1     |
|            | Way to return PLU level  | each item        | 0     |
| Н          | (when you select automatic return mode for PLU level shift mode) | each transaction | 1     |

A and B: Not used (Enter 0 or nothing for A and B.)

F and G: Not used (Enter 0 for F and G.)



# 10. Programming of validation printing and slip printing (PGM2 mode)



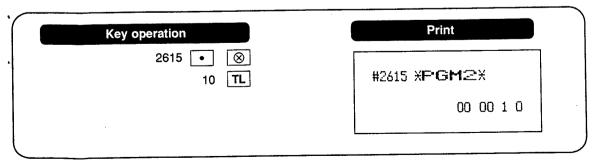
AB: Slip feed lines (0 through 64 lines)

CD: Maximum number of slip print lines (0 through 99 lines)

E: Validation printing counter (1 through 9 times)

To inhibit validation printing, enter 0.

F: Not used (Enter 0.)

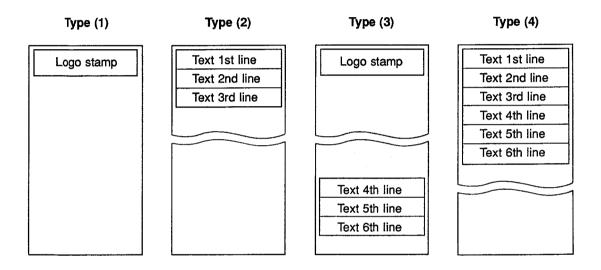


### 11. Logo text programming (PGM2 mode)

Your machine can print logo messages in the following four manners. The standard model provides no message line; it allows stamping only. If you need the printing of programmed messages, please consult your dealer.

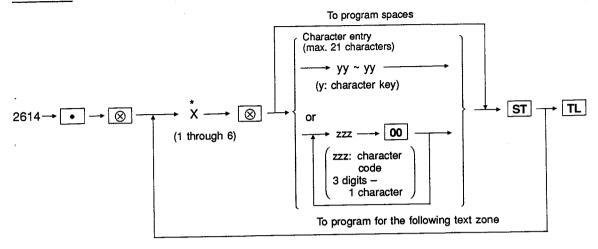
- (1) No logo message printed (logo stamp only)
- (2) 3-line logo message (header) instead of logo stamp
- (3) 3-line logo message (footer) and logo stamp
- (4) 6-line logo message (header) instead of logo stamp

Print positions on the receipt



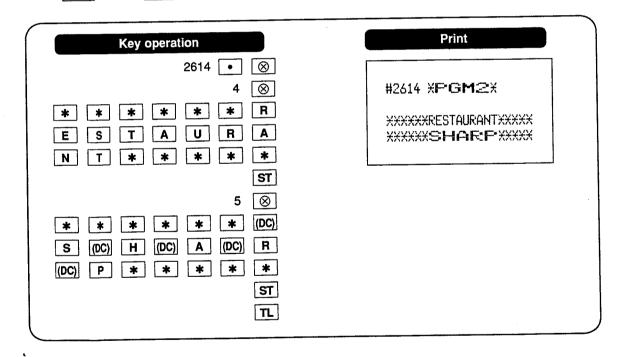
Note) Up to 21 characters can be programmed per line.

#### **Procedure**



\*X: Line number for logo message (1 through 6)

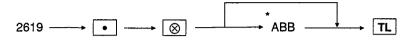
Note: If you program with character keys and you enter a wrong character, you can delete it with the (BACK SPACE) key. The (BACK SPACE) key deletes the last character.



## 12. Programming of hourly report (PGM2 mode)

You can program the sales consolidation start time. The consolidation termination time must be one minute before the next consolidation start time.

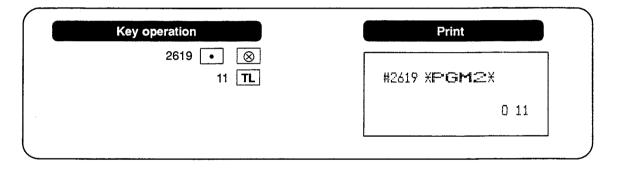
#### **Procedure**



\*A: Memory type 15 minutes (12-hour system)/

30 minutes (24-hour system) = 1/0

BB: Consolidation start time 00 through 23

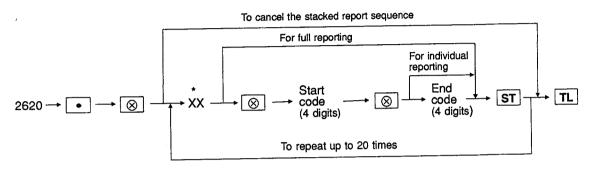


o Reprogramming cannot be done unless resetting is taken once.

# 13. Selection of X1/Z1 and X2/Z2 reports to be printed in the stacked report sequence (PGM2 mode)

Your register is equipped with the stacked report printing function that enables multiple X/Z reports to be printed in sequence with only a single request, up to 20 reports. This function continuously prints a maximum of 20 kinds of reports with a single operation.

#### **Procedure**



- \*: Maximum 70 steps are programmable. "1 step" means the memory size used for one no-range type job no. The range type job no. needs "6 steps".
- \* XX: Report job number

| Job no. | Report                       | Start code and End code                     |
|---------|------------------------------|---|
| 00      | General report               |   |
| 10      | Full department report       |   |
| 13      | Full department group report |   |
| 20      | Range PLU report             | Start PLU no./end PLU no. (1 through 9999)  |
| 24      | PLU stock report             | Start PLU no./end PLU no. (1 through 9999)  |
| 30      | Transaction report           |   |
| 31      | Cash in drawer report        |   |
| 50      | Full cashier report          |   |
| 60      | Hourly sales information     | Start time/end time (0 through 2330 or 2345 |
| 70      | Daily net report             |   |

#### For inline operation (option)

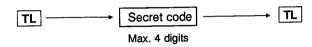
| Job no. | Report                       | Start code and End code                      |
|---------|------------------------------|--|
| 05      | General report               |  |
| 15      | Department report            |  |
| 18      | Full department group report |  |
| 25      | Range PLU report             | Start PLU no./end PLU no. (1 through 9999)   |
| 29      | PLU stock report             | Start PLU no./end PLU no. (1 through 9999)   |
| 35      | Transaction report           |  |
| 36      | Cash in drawer report        |  |
| 55      | Full cashier report          |  |
| 65      | Hourly sales information     | Start time/end time (0 through 2330 or 2345) |
| 75      | Daily net report             |  |

| Key operation | Print        |
|---------------|--------------|
| 2620 • 🛞      |              |
| 10 ST         | #2620 XPGM2X |
| 13 ST         | 10           |
| TL            | 13           |
|               |              |

# 14. Secret codes to control access to PGM1 mode, and Z1 and Z2 reports (PGM2 mode)

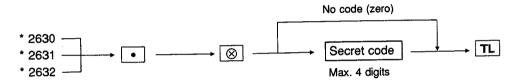
- When changing stored programs in the PGM1 mode, those operations are inhibited if no secret code is entered.
- If a secret code has not been entered yet, any X1/Z1-mode or X2/Z2-mode operation cannot be performed.
- You must enter a secret code according to the following procedure before performing any PGM1-mode, X1/Z1-mode or X2/Z2-mode operation.

#### Procedure

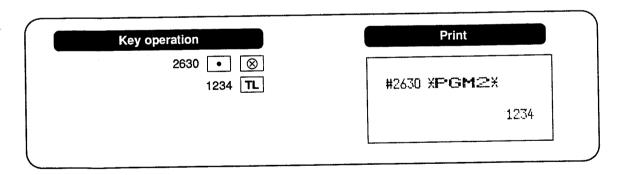


Note: Once a secret code is entered, it does not need to be entered again unless the mode switch setting is changed and any operation, such as a sales registration, reporting, or programming, is performed.

#### **Procedure**



\*: 2630 for PGM1 mode 2631 for X1/Z1 mode 2632 for X2/Z2 mode



# 15. Reading stored programs

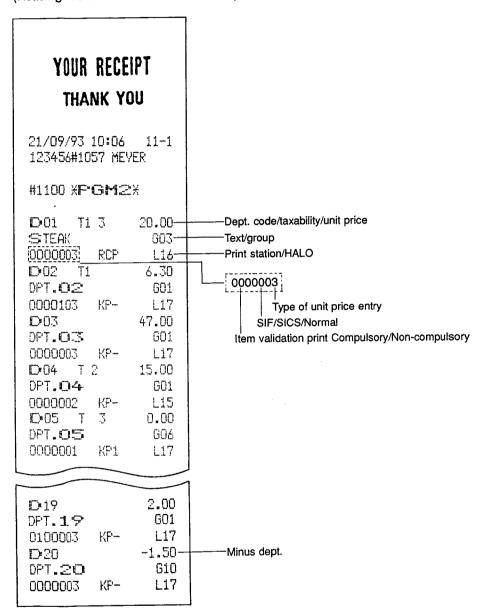
Your machine allows you to read every program stored in the PGM1 and PGM2 modes.

#### (1) Program details and procedures for their reading

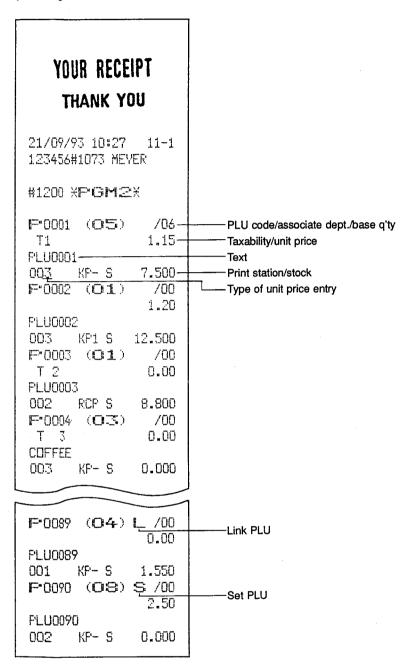
|     | Program for:                        | Mode switch position | Job<br>code no. | Procedure  | Related job code nos.  |
|-----|-------------------------------------|----------------------|-----------------|--|--|
| 1   | Departments                         | PGM2<br>or<br>PGM1   | 1100            | For individual reading  End dept. no.  TL                                | 1110, 2110,<br>2111, 2112,<br>2114, 2116,<br>2118  |
| 2   | PLUs/<br>subdepartments             | PGM2<br>or<br>PGM1   | 1200            | For individual reading  End PLU no.  TL                                  | 1200, 1210,<br>1211, 1220,<br>1221, 1222,<br>2211, 2214,<br>2218, 2220,<br>2221, 2230,<br>2232, 2233 |
| 3   | Cashiers                            | PGM2<br>or<br>PGM1   | 1500            | → 1500 — ⊗ — <b>TL</b>   | 1500, 1514,<br>2510  |
| 4   | Set PLUs                            | PGM2                 | 2221            | → 2221 → ⊗ → Start PLU no.  For individual reading  ⊗ ► End PLU no. ► TL | 2221   |
| (5) | Link PLU                            | PGM2                 | 2220            | → 2220 → ⊗ → Start PLU no.  For individual reading  ⊗ ← End PLU no. ← TL | 2220   |
| 6   | Level range                         | PGM2                 | 2217            | → 2217 — ⊗ — <b>TL</b>   | 2217   |
| 7   | Miscellaneous<br>presets            | PGM2<br>or<br>PGM1   | 2600            | → 2600 — ⊗ <b>TL</b>   | 2614, 2615,<br>2616, 2617,<br>2619, 2620,<br>2630, 2631,<br>2632                                     |
| 8   | Function preset                     | PGM2<br>or<br>PGM1   | 1300            | → 1300 —   | 1310, 2311,<br>2312, 2313,<br>2314, 2315,<br>2316, 2320,<br>2321, 2322                               |
| 9   | Tax rate                            | PGM2                 | 2700            | → 2700 → ⊗ — <b>TL</b>   | 2711   |
| 10  | Dept. and PLU codes for direct keys | PGM2                 | 2119            | → 2119 → ⊗ — <b>TL</b>   | 2119, 2219   |
| 11) | Auto key preset                     | PGM2                 | 2900            | → 2900 → 🔘 — TL  | 2900   |

#### (2) Sample printouts

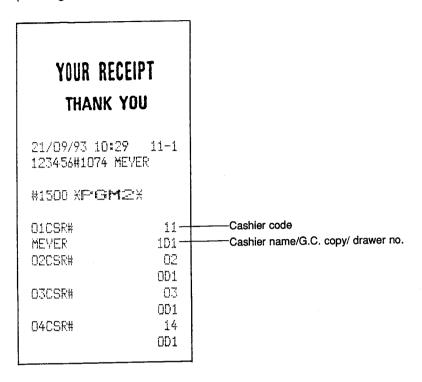
 Reading of programmed items for departments (Reading in the PGM1 and PGM2 modes)



② Reading of programmed items for PLUs/subdepartments (Reading in the PGM1 and PGM2 modes)



③ Reading of programmed items for cashiers (Reading in the PGM1 and PGM2 modes)



 Reading of programmed set PLUs (Reading in the PGM2 mode)

# YOUR RECEIPT THANK YOU

21/09/93 10:30 11-1 123456#1075 MEVER

#2221 XP'GM2X

F\*0011

SP0012-

P0013

P0014

P0015

P0016

S Reading of programmed link PLU (Reading in the PGM2 mode)

# YOUR RECEIPT THANK YOU

21/09/93 10:30 11-1 123456#1076 MEVER

#2220 XFGM2X

F\*0007

L\_F00008-

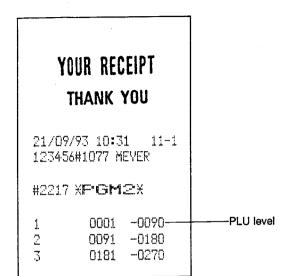
P0009

P0010

-Link PLU/linked PLU code (max. 5 PLUs)

-Set PLU/linked PLU code (max. 10 PLUs)

® Reading of programmed level range (Reading in the PGM2 mode)



Reading of miscellaneous preset
 (Reading in the PGM1 and PGM2 modes)

|                       | RECEIPT<br>NK YOU         |                                       |
|-----------------------|---------------------------|---------------------------------------|
| 21/09/93<br>123456#10 | 11:08 11-1<br>199 MEYER   |                                       |
| #2600 X <b>F</b> *    | omex                      |                                       |
| #2614                 |                           | Logo message                          |
|                       | TAURANTXXXXX<br>HARFXXXXX |                                       |
| #2615                 | 00 00 1 0-                | Slip/VP                               |
| #2616                 |                           | Optional feature                      |
| 1                     | 00000000                  |                                       |
| 2 3                   | 00000000                  |                                       |
|                       | 00001000                  |                                       |
| 4                     | 00000000                  |                                       |
| #2617                 | 030-                      | Drawer open alarm time                |
| #2619                 | 0 11                      | Hourly report: Memory type/start time |
| #2620                 |                           | Stacked report                        |
| 1                     | 10                        |                                       |
|                       | 13                        |                                       |
| #2630                 | 1234—                     | Secret code for PGM1 mode             |
|                       | 0000-+                    | Secret code for X1/Z1 mode            |
| #2631<br>#2632        | 0000                      | Secret code for X2/Z2 mode            |

® Reading of programmed items for functions (Reading in the PGM1 and PGM2 modes)

# YOUR RECEIPT THANK YOU

21/09/93 10:47 11-1 123456#1079 MEYER

#1300 XFGM2X

F001 (-)1 I -0.00 L16 F002 (-)2 S -0.00 L17 F003 (-)3 -0.00 L17 F004 (-)4 -0.00 =L17 F005 %1 -0.00% I L 20.00% F006 %2 -12.25% 5 L100.00% F007 %3 5 -0.00% L100.00% F008 %4 -0.00% 5 L100.00%

FOO9 SET PLU-

FO10 DIFFER

FO11 TAX1 ST

F 012 TAX2 ST

F 013 TAX3 ST

FF 014 TAX ST

F 015 VAT 1

**F** 016 VAT 2

F 017 VAT 3

FO18 VAT

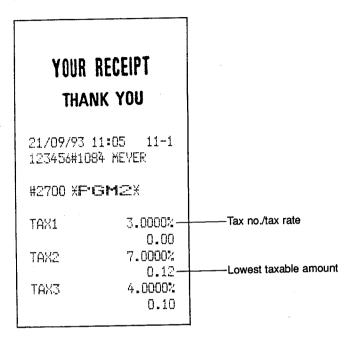
F019 NET1 F020 NET2 FO21 CP PLU F 022 REFUND F023 60 F 024 42 MODE F 025 MGR 0 F 026 SBTL 0 F027 HASH ø FO28 HASH RF FO29 VP CNT F 030 SLIP CNT FO31 NO SALE F 032 G.C. CNT F 033 XXXPBAL F 034 XXXNBAL L18 IF 035 XXXRA IF 036 XXXRA2 L18 FO37 XXXPO L18 F 038 XXXP02 L18 F 039 CA/CHK 99.99 FO40 CASH L18 00000000000 L18 FO41 CASH2 000000000000 F 042 CHECK L18 00000000000 F 043 CREDIT1 L18 00010000010 FO44 CREDIT2 L15 0000000000000 L18 F 045 CREDIT3 000000000000 FO46 CREDIT4 L18 00000000000 F 047 CREDITS L18 0000000000000 L18 FO48 CREDIT6 FO49 CREDIT7 000000000000 F 050 CREDIT8 L18 000000000000 F 051 EXCH1 0.0000

F 052 EXCH2 0.0000 F 053 EXCH3 0.0000 F 054 EXCH4 F 055 EXCH1 IS F 056 EXCH2 IS F 057 EXCH3 IS F 058 XXXXCID 9999999.99 F 059 CA/CH IS FO60 CA/CH ID F 061 CHK/CG 999999.99 F 062 GUEST F 063 ORDER TL FO64 PAID TL FO65 DDM.CUR1 F 066 DDM.CUR2 F 067 DOM.CUR3 FO68 DOM.CUR4 F 069 XCH ID FO70 XDEPT TL F 071 DEPT(-) F 072 XBTTL TL F-073 BTTL(-) F 074 XHASH TL F 075 HASH(-) F 076 NET 1 F 077 NET 2 F 078 NET 3 F-079 NET FO80 SUBTOTAL FO81 MDSE ST F 082 XXXTOTAL F 083 CHANGE F 084 BALANCE F 085 ITEMS F 086 PLU ST F087 COFY FO88 G.C COPY F 089 SLIP PR. F 090 NEXT P. F 091 AVE. F 092 GROUP01

F 093 GROUP02

FO94 GROUPO3 F095 GROUP04 F096 GROUPOS F097 GROUPO6 F098 GROUP07 F099 GROUP08 F100 GROUP09 F101 CCD F102 CCD DIF. F103 DIF. TL F104 D-F F105 DEPT F106 GROUP F107 FLU F108 STOCK F109 TRANS. F110 TL-ID F111 CASHIER F112 HOURLY F113 DAILY F 114 SET PLU F115 TTL TAX F116 NET F117 TOWNNAME F 118 TOWNHAME

Reading of programmed tax rate
 (Reading in the PGM2 mode)



® Reading of programmed dept. and PLU codes for direct keys (Reading in the PGM2 mode)

| YOUR REC   |   |                           |
|--|---|---------------------------|
| THANK 121/09/93 11:0 123456#1085 M #2119 XP GM 001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 | 5 11-1<br>EYER  | Key no./dept. or PLU code |
| 018<br>019<br>020<br>021<br>022<br>023<br>024<br>025<br>026<br>027<br>028<br>155<br>156<br>157<br>158              | D18<br>D19<br>D20<br>F-0001<br>F-0002<br>F-0003<br>F-0004<br>F-0005<br>F-0007<br>F-0008 |                           |

159 160

# **REGISTRATIONS**

# \* Preparations for entries

- (1) Put the operator key in the mode switch and turn it to the REG position.
- (2) Press your assigned push-button cashier key.
- (3) Check to see if your register has both the journal and receipt rolls. If your register lacks these rolls or has low rolls, install new paper rolls or replace the old rolls with new ones according to "4. Installing and removing the paper roll" under "OPERATOR MAINTENANCE".

# \* Error warning

In the following examples, your register will go into an error state accompanied with a warning beep and the error code on the display. Clear the error state by pressing the CL key and take a proper action.

- (1) When you enter an over 32-digit number (entry limit overflow):
  - Cancel the entry and re-enter a correct number.
- (2) When you make an error in key operation:
  - Clear the error and operate keys correctly.
- (3) When you make an entry beyond a programmed amount entry limit:
  - Check to see if the entered amount is correct. If it is correct, it can be rung up in the MGR mode. Contact your manager.
- (4) When a subtotal exceeds eight digits:
  - Clear the subtotal and press the TL , CA2 , CH , CR1 ~ CR8 or finalize the transaction.

# Cashier assignment

Cashier can be assigned on two systems: Push-button cashier key, and real cashier key systems. For how to select two systems, consult your local dealer.

## Push-button cashier key system (factory-set)

If you select this system, cashiers can be assigned by pressing corresponding push-button cashier keys.

#### Real cashier key system

If you select this system, any cashier cannot be assigned without inserting a corresponding real cashier key. Any registration cannot be performed unless a real cashier key is inserted.

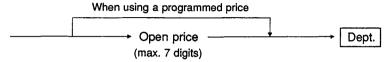
# 2. Item entries

#### (1) Single item entries

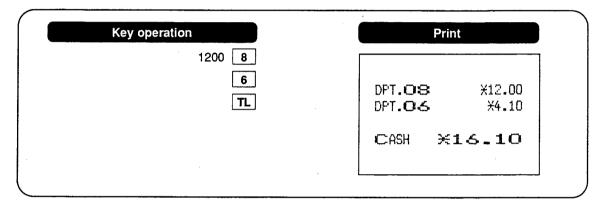
#### • Entries into departments

Enter a unit price and press a department key. If you use a programmed unit price, press a department key only.

#### **Procedure**



Open price: Less than a programmed upper limit

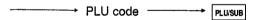


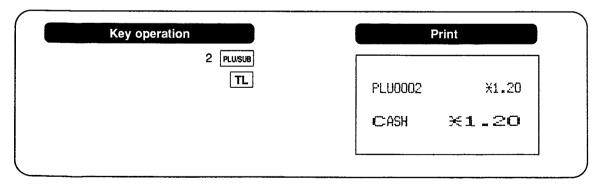
Note: When those departments for which the unit price has been programmed as 0 (zero) are entered by using preset unit price, the quantity alone is added.

## • PLU entries (indirect PLU entries)

Enter a PLU number and press the PLUSUB key.

#### **Procedure**

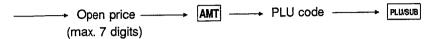




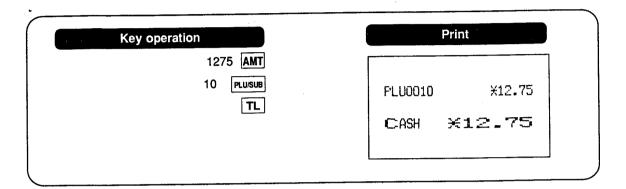
Note: When those PLUs for which the unit price has been programmed as 0 (zero) are entered, the quantity alone is added.

Subdepartment (open PLU) entries
 Follow this sequence:



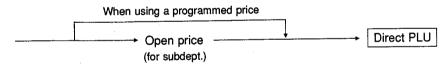


Open price: Less than a programmed upper limit

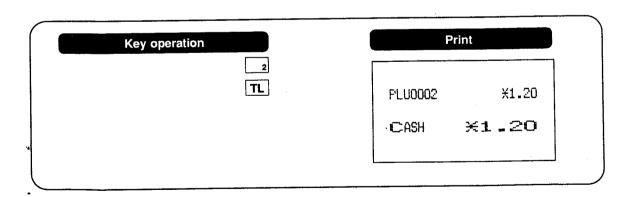


• Direct PLU (Menu) entries Follow this sequence:

#### **Procedure**

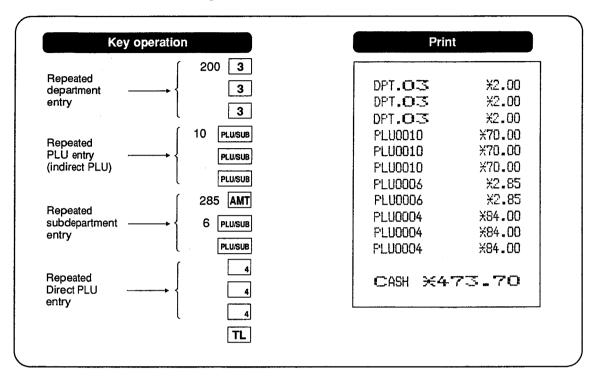


Open price: Less than a programmed upper limit



#### (2) Repeat entries

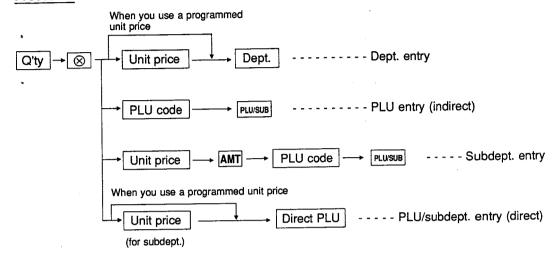
You can use this function for entering two or more of the same item.



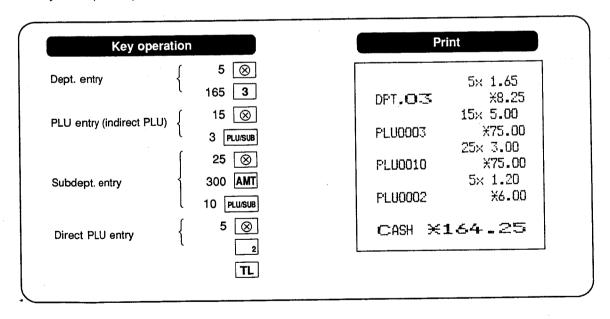
#### (3) Multiplication entries

Use this feature when you need to enter two or more of the same item.

This feature helps when you enter a large quantity of items or need to enter quantities that contain decimals.

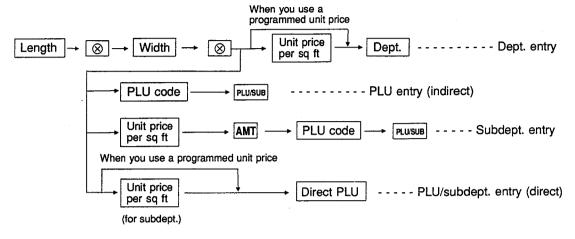


- Q'ty: up to seven digits (4-digit integer + 3-digit decimal)
- Unit price: less than a programmed upper limit (max. 999999)
- Q'ty x unit price: up to seven digits

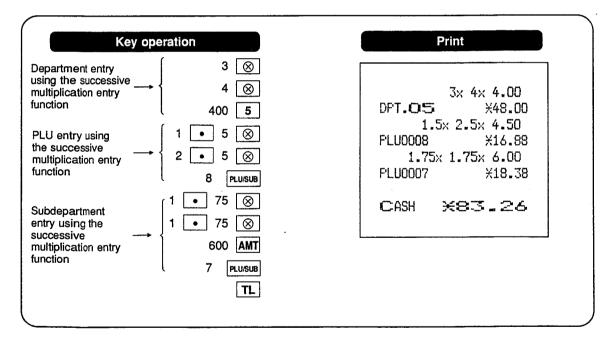


#### (4) Successive multiplication entries (option)

This function is practical for example when you enter a sale of items sold by area (square feet).

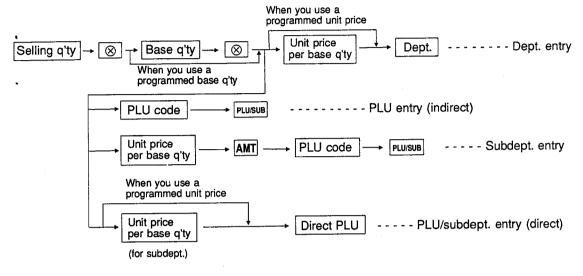


- Length or width: up to seven digits (4-digit integer + 3-digit decimal)
- Unit price: less than a programmed upper limit
- Length x Width x Unit price: up to seven digits

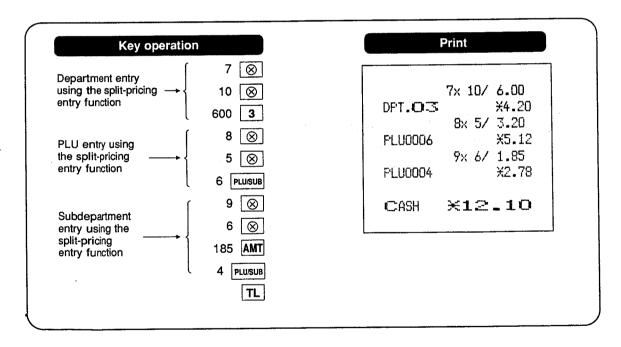


#### (5) Split-pricing entries (option)

You will use this function when your customer wants to purchase more or less than the base quantity of a loose item.



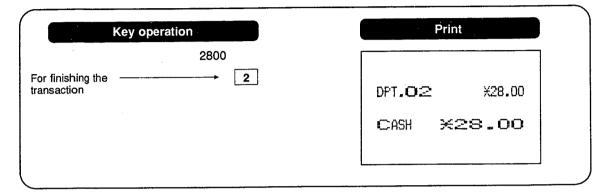
- Selling quantity: up to seven digits (4-digit integer + 3-digit decimal)
- · Base quantity: up to two digits (integer)



# (6) Single item cash sale (SICS)/single item finalize (SIF) entries

#### ① SICS entries

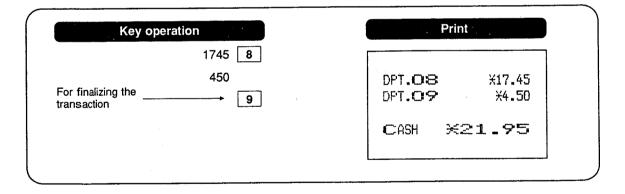
- This function is useful when a sale is for only one item and is for cash; such as a pack of cigarettes.
   This function is applicable only to those departments that have been set for SICS or to their associated
   PLUs or Direct PLU.
- The transaction is finalized and the drawer opens as soon as you press the department key, PLUSUB key or direct PLU key.



Note: If a ring-up to a department or PLU/Direct PLU set for SICS follows the ones to departments or PLUs not set for SICS, it does not finalize and results in a normal sale.

#### ② SIF entries

- If a ring-up to a department or PLU/subdepartment set for SIF follows the ones to departments or PLUs/subdepartments not set for SIF, the transaction is finalized immediately as a cash sale.
- Like the SICS function, this function is available for single-item cash settlement.

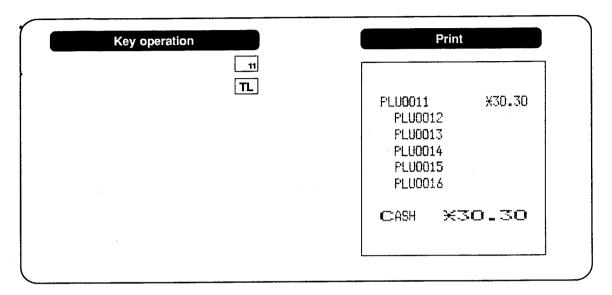


# 3. Other entries for PLUs

## (1) Set PLU entries

Operation is the same as for normal PLU's.

When a set PLU is entered, the linked PLU's labels are printed automatically.

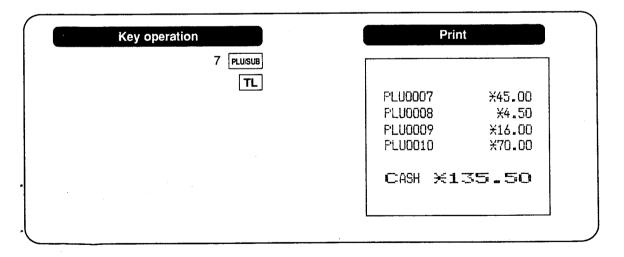


Note: The total of the unit prices of the linked PLU is the registered amount of the set PLU. If a unit price is set in the set PLU (ex. PLU 11), the price will be reduced from the total.

## (2) Link PLU entries

Operation is the same as for normal PLU's.

When a link PLU is entered, the linked PLU's amount is included and the linked PLU's label is printed automatically.



#### (3) PLU level shift (for direct PLU)

The shift can double or triple the number of PLUs on your register without adding additional direct PLU keys. You can use direct PLUs in three levels by utilizing shift keys L1, L2, and L3.

These keys have the following functions.

L1: Shifts the PLU level from level 2 or 3 to level 1 (base level).

L2: Shifts the PLU level from level 1 or 3 to level 2.

L3 : Shifts the PLU level from level 1 or 2 to level 3.

You must program PLU level shift mode (i.e. Automatic return mode\* or lock shift mode\*\*) and mode switch position for PLU level shift (i.e. REG and MGR positions or MGR position) with job #2616.

\* The automatic return mode automatically shifts the PLU level back to level 1 after a direct PLU key is pressed.

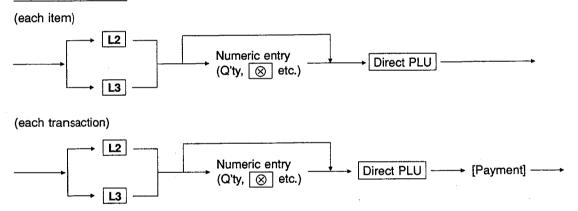
You can select whether PLU level returns each time you enter 1 item or it returns each time you finalize 1 transaction with job #2616.

\*\* The lock shift mode holds the current PLU level until depression of a PLU level shift key.

#### · Automatic return mode

If you shift the PLU level in the automatic return mode, press a desired PLU level shift key before numeric entry.

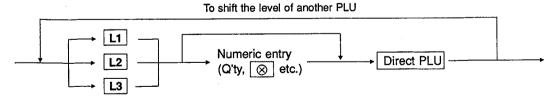
#### Key entry sequence



#### Lock shift mode

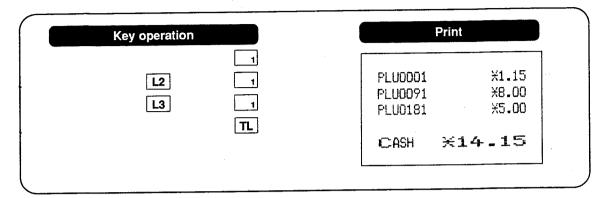
If you shift the PLU level in the lock shift mode, press a desired PLU level shift key before a numeric entry.

#### Key entry sequence

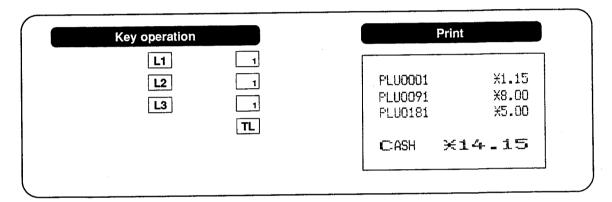


Note: If you select the automatic return mode, it is not necessary to use the L1 key on the keyboard, but if you select the lock shift mode, it is necessary to use the key.

When your register has been programmed for the automatic return mode:

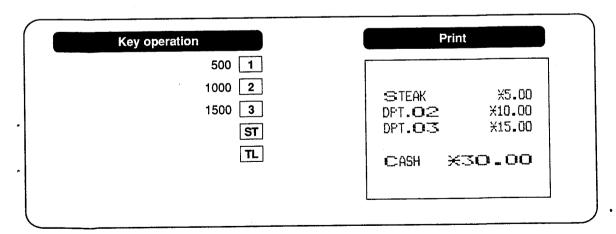


When your register has been programmed for the lock shift mode:



# 4. Display of subtotals

Press the ST key at any point during a transaction. Then the machine state symbol " " and the subtotal will appear in the display and the "ST" lamp will light up.



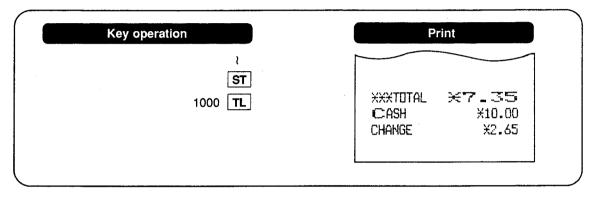
# 5. Finalization of transaction

#### (1) Cash or cheque tendering

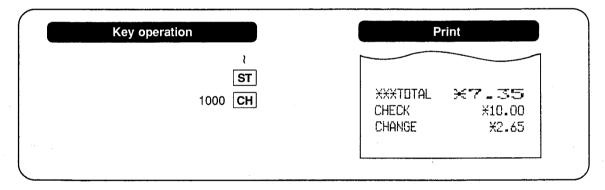
Press the ST key to get a subtotal, enter the amount tendered by your guest, then press the TL key if it is a cash tender or press the CH key if it is a cheque tender.

When the amount tendered is greater than that amount of the sale, your register will show the change due amount. Otherwise your register will show a deficit.

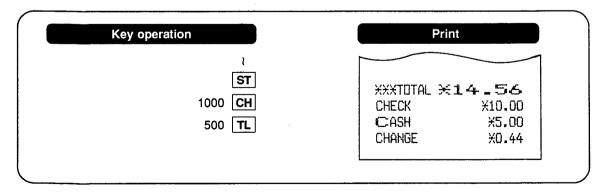
#### Cash tendering



#### Cheque tendering

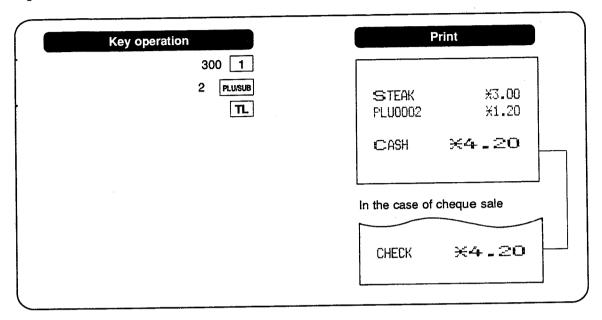


## (2) Mixed tendering (cheque + cash)



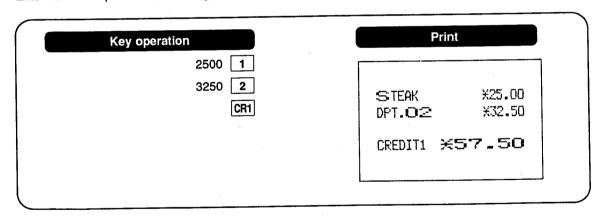
# (3) Cash or cheque sale that does not need a tender amount entry

Enter items and press the TL key if it is a cash sale or press the CH key if it is a cheque sale. Your register will display the total sale amount.

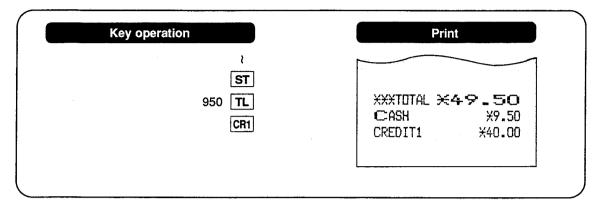


## (4) Credit sale

Enter items and press the credit key.



(5) Mixed-tender sale (cash or cheque tendering + credit sale)



Note: For cheque tendering, press the CH key instead of the TL key.

# 6. Computation of VAT (Value Added Tax)/tax

The machine may be programmed for the following six tax systems by your dealer.

- 1 Automatic VAT 1, 2, 3 system (Automatic operation method using programmed percentages)
  This system, at settlement, calculates VAT for taxable 1, taxable 2, and taxable 3 subtotals by using the corresponding programmed percentages.
- (2) Automatic tax 1, 2, 3 system (Automatic operation method using programmed percentages)

  This system, at settlement, calculates taxes for taxable 1, taxable 2, and taxable 3 subtotals by using the corresponding programmed percentages, and also adds the calculated taxes to those subtotals, respectively.
- Manual VAT 1, 2, 3 system (Manual entry method using programmed percentages)

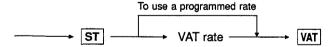
#### **Procedure**

——→ ST ——— VAT

This system provides the VAT calculation for taxable 1, taxable 2, and taxable 3 subtotals. This calculation is performed using the corresponding programmed percentages when the VAT key is pressed just after the ST key.

4 Manual VAT 1 system (Manual entry method for subtotals that uses VAT 1 preset percentages)

#### **Procedure**



This system enables the VAT calculation for the then subtotal. This calculation is performed using the VAT 1 preset percentages when the VAT key is pressed just after the ST key. For this system, the keyed-in tax rate can be used.

(5) Manual tax 1, 2, 3 system (Manual entry method using programmed percentages)

#### **Procedure**

ST ---- VAT

This system provides the tax calculation for taxable 1, taxable 2, and taxable 3 subtotals. This calculation is performed using the corresponding programmed percentages when the  $\boxed{\text{VAT}}$  key is pressed just after the  $\boxed{\text{ST}}$  key. After this calculation, you must finalize the transaction.

## (6) Automatic tax 1, 2, 3 system and VAT1 system for Spain and Switzerland

In the case of Spain, these specific tax systems allow the calculation of amounts to be paid out for three types of taxes applicable in this country. These taxes are automatically added to the resulting subtotals 1–3. Moreover, in the case of Switzerland, the amount of value added tax – included in the resulting subtotal – is calculated separately.

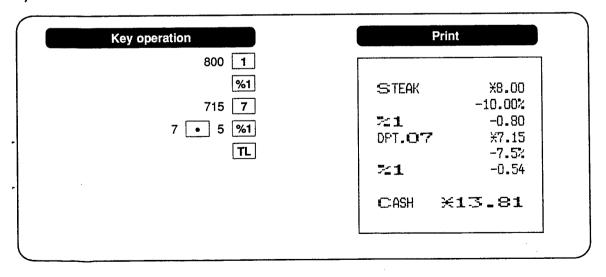
In both cases the calculation is based on respective preprogrammed percentages.

| Key opera   | ation        | Pi                                  | int                                       |
|---|--------------|-------------------------------------|---|
| hen the manual<br>T 1, 2, 3<br>stem is selected.) | 550 8 ST VAT | DPT.OS SUBTOTAL TAX1 ST VAT 1 NET 1 | X5.50<br>X5.50<br>X5.50<br>X0.16<br>X5.34 |
|   |              | CASH                                | X5.50                                     |

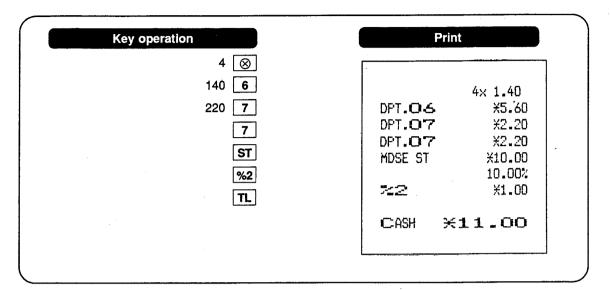
# 7. Auxiliary entries

## (1) Percent calculations (premium or discount)

- Your register provides the percent calculation for the subtotal of each item entry.
- Percentage: 0.01 to 100.00% (Less than a programmed upper limit)
- 1) Percent calculation for item entries



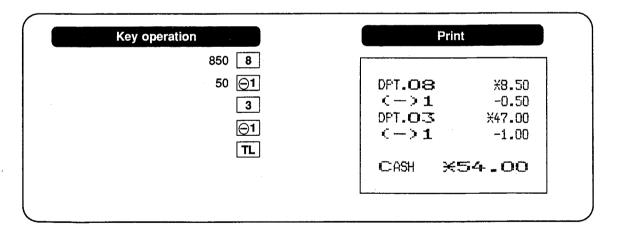
#### 2) Percent calculation for the subtotal



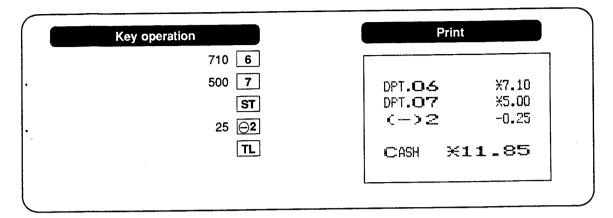
#### (2) Deduction

Your register allows you to deduct a certain amount less than a programmed upper limit after the entry of an item or the computation of a subtotal.

#### 1) Deduction for item entries

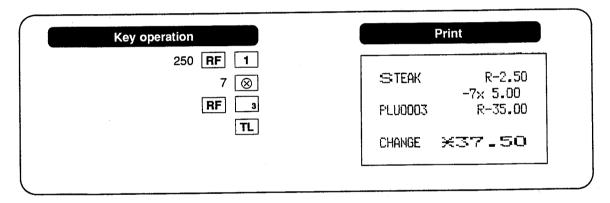


#### 2) Deduction for the subtotal



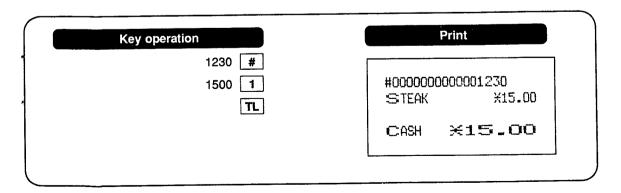
#### (3) Refund entries

For refund entry, press the RF key first and then the department, PLU and direct PLU keys. Repeated or multiplied refund entries are also possible.



## (4) Printing of non-add code numbers

Enter a non-add code number such as a guest code number and credit card number within a maximum of 16 digits and press the # key. The numerical entry can be made at any point during the entry of a sale. Your register will print it at once.



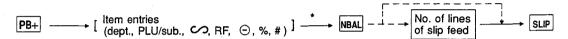
## 8. Manual PB+/PB- entries

The PBAL entry refers to the entry of the final amount (NBAL) of the preceding entry. The entry of NBAL is intended for temporary settlement during a series of entries. If you need this function, please consult your local dealer.

#### (1) New guest

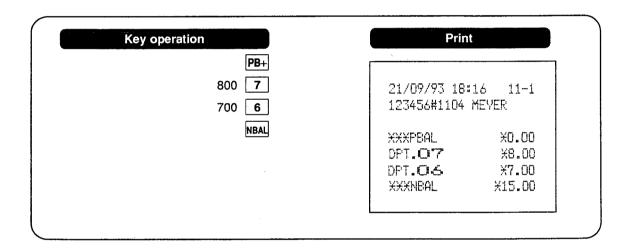
For a new guest, open a new guest check.

#### **Procedure**



Only when the buffered slip system is selected

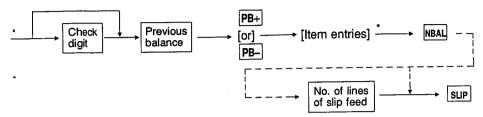
\* From this point you can proceed to the partial or full payment operation in the settlement procedure.



## (2) Additional ordering

For an existing guest, enter the previous balance. (Your register may be programmed to require that a check digit be added to the previous balance amount.)

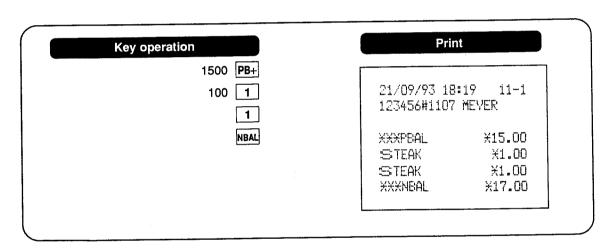
#### **Procedure**



Only when the buffered slip system is selected

PB+ : When the amount is plus or zero
PB- : When the amount is minus

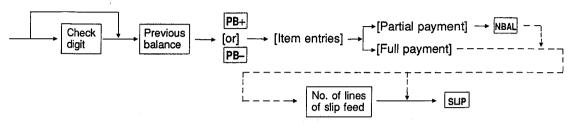
\* From this point you can proceed to the partial or full payment operation in the settlement procedure.



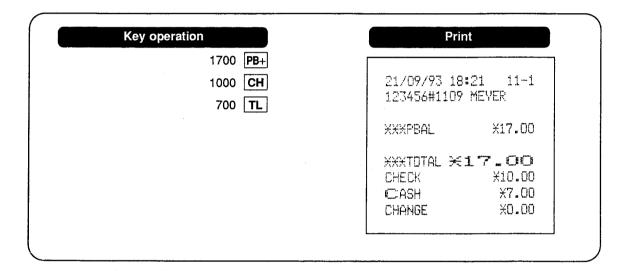
## (3) Settlement

Use the following procedure.

#### **Procedure**



Only when the buffered slip system is selected



# 9. Payment treatment

## (1) Currency exchange

The register allows payment registrations in a maximum of four kinds of foreign currency.

EX1 to EX3 : Currency exchange can only be achieved by using a preset exchange rate when these keys

are used.

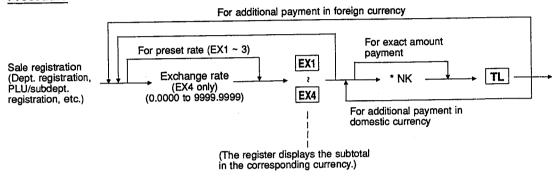
: Currency exchange can only be achieved by using a keyboarded exchange rate when this

key is used.

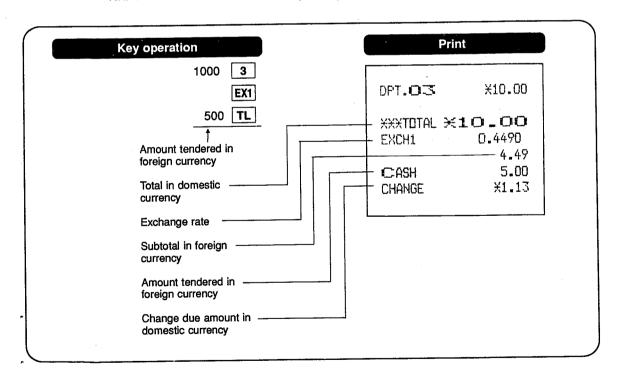
The EX2 to EX4 keys are options.

#### **Procedure**

EX4

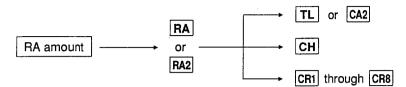


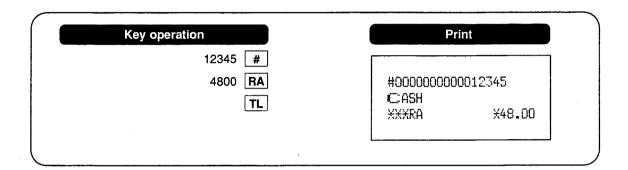
\* NK: Amount tendered in the corresponding currency (max. 8 digits)



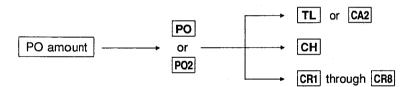
## (2) Received-on account entries

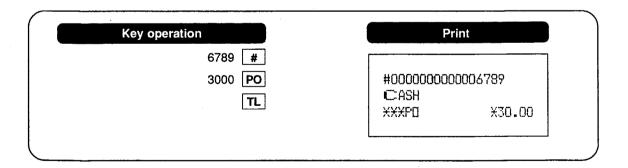
## Procedure





## (3) Paid out entries





# (4) No sale (exchange)

Simply press the NS key without any entry. The drawer will open and the machine will print the "NO SALE" on both the journal and the receipt.

#0000000000004567 ND SALE

## (5) Cashing a cheque

You can cash a cheque. Enter an amount, then press the CH key.

| Key operation | Print  |        |
|---------------|--------|--------|
| 2000 CH       |        |        |
|               | CA/CHK | ¥20.00 |
|               |        |        |
|               |        |        |

# CORRECTION

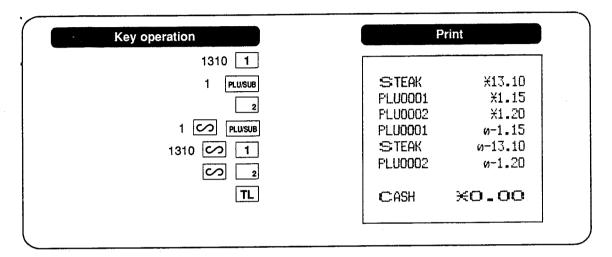
# 1. Correction of the last entry (direct void)

If you make any incorrect department, PLU/subdepartment, percentage, deduction, or refund entry by mistake, you can void this incorrect entry by pressing the we immediately after the incorrect entry.

| Key operation                                      | Pri   | nt   |
|--|---|--|
| 1250 1  2 PLUSUB  600 3  %1  2328 4  28 ©1  CC  TL | STEAK<br>STEAK<br>PLU0002<br>PLU0002<br>DPT.OIS<br>21<br>21<br>DPT.O4<br>(-)1<br>(-)1 | X12.50<br>ω-12.50<br>X1.20<br>ω-1.20<br>X6.00<br>-10.00%<br>-0.60<br>ωX0.60<br>X3.28<br>-0.28<br>ωX0.28<br>X9.28 |

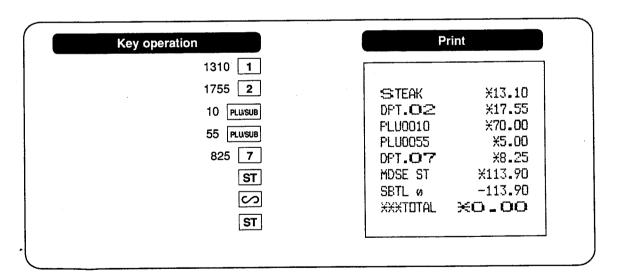
# 2. Correction of the next-to-last or earlier entries (indirect void)

You can void any incorrect department, PLU/subdepartment, or refund entry made during a transaction by specifying it if you find it before finalizing the transaction (before making an amount tendered entry).



# 3. Correction of the subtotal (subtotal void)

This function allows you to void an entire transaction that has not yet been finalized. When subtotal void is executed, the transaction is aborted and the register issues a receipt.



# 4. Handling of errors found after receipt issuance

If you (as a cashier) find any errors after the entry of a whole transaction has been completed or while an amount tendered entry is being made, you cannot void them. Only your manager can do (refer to "COR-RECTION AFTER FINALIZING A TRANSACTION"). You will take this step.

- (1) If you are making an amount tendered entry, finalize the transaction.
- (2) Make correct entries from the beginning.
- (3) Hand the incorrect receipt to your manager for its cancellation.

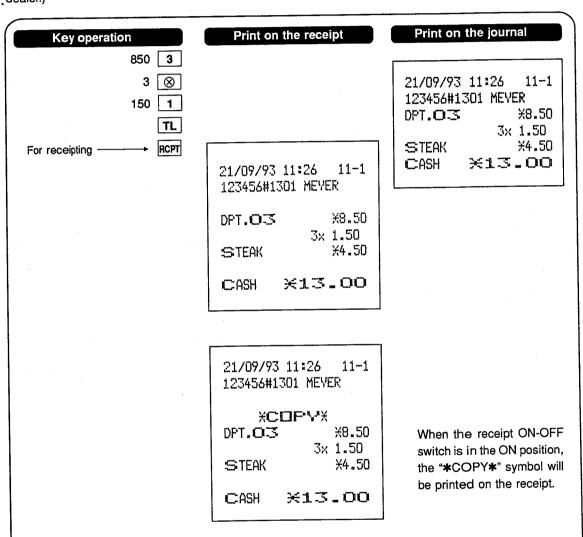
# **VARIOUS PRINTING**

# 1. Copy receipt printing

If your guest wants receipt after you have finalized a transaction with the receipt ON-OFF switch at the OFF position (no receipting), press the RCPT key.

Your register can print copy receipts.

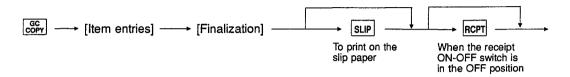
Either full item printing or total amount printing can be selected for a copy receipt. (For details, contact your dealer.)



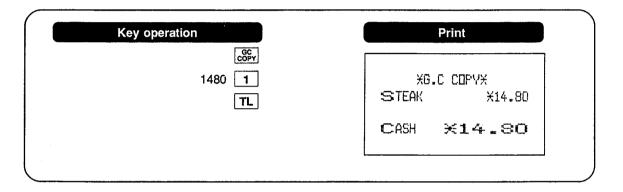
# 2. Guest check copy

You can use this function when you want to take a copy of guest check. Press the  $\frac{GC}{COPY}$  key and make a desired entry.

#### **Procedure**



Note: The guest check copy has nothing to do with the memory.

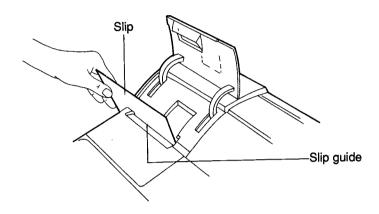


# 3. Validation printing function

The machine can perform validation printing.

# 3-1. Validation slip setting and printing

- (1) Insert the slip, with its printed face to the front of the machine, into the slip guide. Make sure the slip is pushed in enough deep and fully to the right.
- (2) Now press the VP key. The validation printing will start.



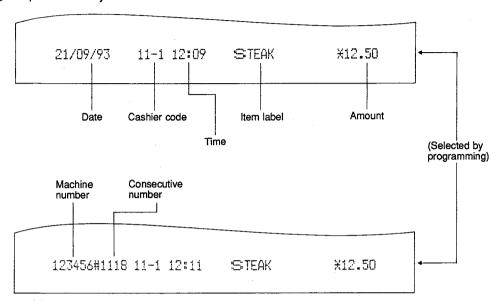
Note: Programmed compulsory validation printing can be overridden by performing the following operation. If you need this function, consult your dealer.

- (1) Turn the mode switch to the "MGR" position.
- (2) VP

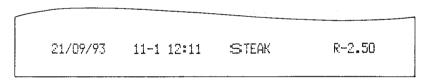
## 3-2. The validation printing can occur just after the following registrations

#### (1) Validation printing of item entries

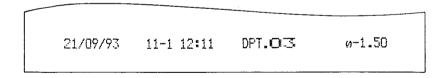
#### 1 Department entry



#### ② Refund entry

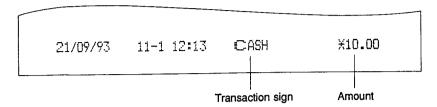


#### 3 Direct or indirect void



Note: Other item entries can also be printed. For details, consult your local dealer.

## (2) Validation printing after the finalization of a transaction



(programmable) 1 After completion of cash sale entry \* \* \* TOTAL When a change calculation occurs ...... **CASH** 2 After completion of cheque sale entry \* \* \* TOTAL CHECK 3 After completion of credit sale entry \* \* \* TOTAL \* \* PO 4 After completion of PO entry .....

Transaction signs

\* \* RA

# 3-3. Validation slip specification

Make validation slips according to the following specification.

The use of any slips other than specified causes the printer to malfunction.

⑤ After completion of RA entry .....

#### (1) Type of slip

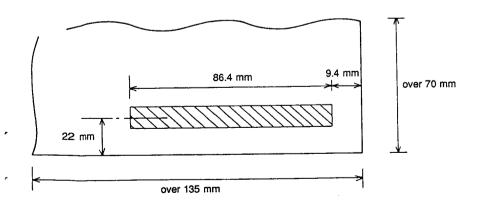
Normal paper, pressure-sensitive paper, or carbon paper

#### (2) Dimensions of slip

Size:

135 mm or wider, 70 mm or longer

Thickness: 0.07 - 0.14 mm



# **OVERLAPPED CASHIER ENTRY**

This function allows to switch from one cashier to another and to interrupt the first cashier's entry. So the second cashier can do his entry in this mode.

For actual use of this function, contact your dealer.

#### Example:

Cashier 1: Entry started

Cashier 2: Cashier change (1 to 2), interrupt initiated

Cashier 2: Transaction finished

Cashier 1: Cashier change (2 to 1), entry restarted

Note 1: The overlapped cashier entry is not effective while the tendering sale is going on.

Note 2: Only the total sales amount is printed on the receipt in the overlapped cashier entry mode.

Note 3: If any cashier is still making an entry (or has not finalized the transaction yet), the machine does not run in any mode other than REG and MGR, and no X/Z reports can be printed. The corresponding cashier number(s) is displayed at this time.

| Key operation   | Comments  |
|---|---|
| <ul><li>(1) Cashier 1 is specified.</li><li>(Cashier key 1 is pressed.)</li></ul> | The entry by cashier 1 is started.  |
| 100 1<br>360 3  |   |
| (2) Cashier 2 is specified. (Cashier key 2 is pressed.)                           | The entry by cashier 2 is started. (The entry by cashier 1 is interrupted.) |
| 3 ⊗<br>150 <b>2</b><br>TL   | The transaction by cashier 2 is finalized.                                  |
| (3) Cashier 1 is specified. (Cashier key 1 is pressed.)                           | The entry by cashier 1 is restarted.  |
| 100 1<br>300 3<br>TL  | The transaction by cashier 1 is finalized.                                  |
|   |   |

## PRINTING OF THE EMPLOYEE ARRIVAL AND DEPARTURE TIMES

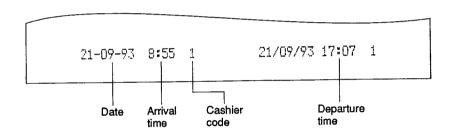
The register allows the operator to print the employee arrival and departure times, using the validation printing function.

- (1) Turn the mode switch to the "OP X/Z" position.
- (2) Put a card into the paper chute and perform the following key operation.
  - 1) Arrival time (printed on the receipt)

    Numeric key 1 ————— [
  - 2) Departure time (printed on the journal)

Numeric key 2 VP

#### Sample printout



### MANAGER MODE

The manager mode is used when management decisions must be made concerning register entry, for example, for overriding limitations and void-mode operation.

You can also do all normal cash register operations in this mode.

To enter the manager mode, insert the manager key into the mode switch and turn it to the MGR position. A cashier key must also be pressed (or a real cashier key must also be inserted into the cashier switch).

# CORRECTION AFTER FINALIZING A TRANSACTION (AFTER GENERATING A RECEIPT)

When the manager needs to void incorrect entries that are found after finalizing a transaction or cannot be corrected by direct or indirect void, follow this procedure.

- (1) Put the manager or submanager key in the mode switch and turn it to the MGR position.
- (2) Press the key to put your register in the VOID mode.
- (3) Repeat the entries that are recorded on an incorrect receipt.
  This will result in all data for the incorrect transaction being removed from the machine's memory and the addition of the voided amounts to the VOID mode totalizer.

#### Incorrect receipt

21/09/93 17:00 11-1 123456#1168 MEYER

 DPT.06
 X25.00

 DPT.07
 X35.00

CASH X&O.OO

#### **Cancellation receipt**

21/09/93 17:00 11-1 123456#1169 MEYER

\_\_\_X**≤≥** MODEX

DPT.06

%25.00 %35.00

CASH

**%60.00** 

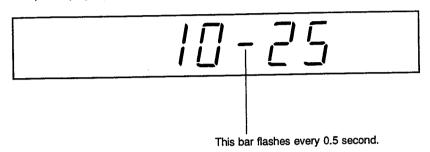
Note: Your machine retrieves the normal MGR mode whenever a transaction is canceled (i.e. finalized in the VOID mode). To void additional transactions repeat steps (2) and (3) above.

## TIME DISPLAY AND AUTOMATIC UPDATING OF THE DATE

## Time display

When you need a time display, turn the mode switch to the OP X/Z position after the preceding transaction or operation is finalized.

Sample display of 10:25



## Automatic updating of the date

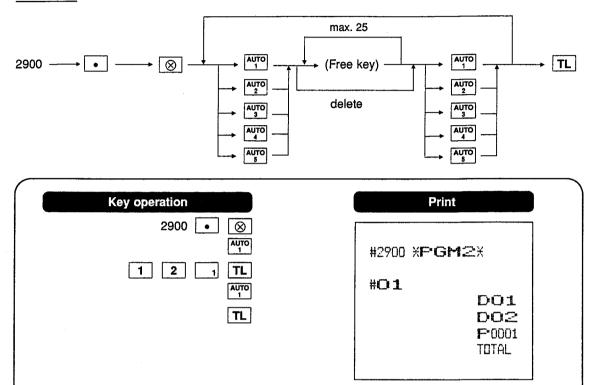
Once the internal clock unit is started at the correct time, it continues to run as long as the built-in battery is charged, and updates the date (day, month, year) properly.

## **AUTOMATIC KEY FUNCTION**

#### • Programming the key sequence

You can program the key sequence data for AUTO key in X2/Z2 mode.

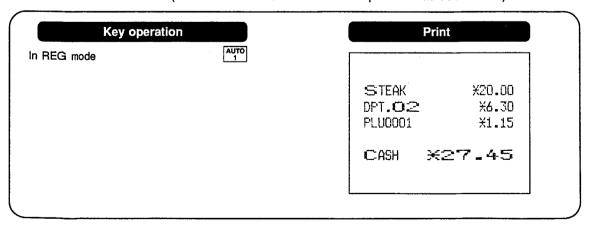
#### **Procedure**



#### Automatic key entries

When Auto key is depressed, the machine works as same as the programmed key-sequence is entered. Operating modes that allow Auto key entries:

- REG / MGR / VOID (You can use this function at any time.)
- OP X/Z / X1/Z1 / X2/Z2 (You can use this function when no operation has been done.)



## READING (X) AND RESETTING (Z) OF SALES TOTALS

- Use the reading function (X) when you need to take a reading of sales information entered since the last resetting. You can take this reading any number of times. It does not affect the register's memory.
- Use the resetting function (Z) when you need to clear the register's memory.
   Resetting prints all sales information and clears the entire memory except for the GT1 through GT3,
   reset count, and consecutive number.
- X and Z reports are printed on both the receipt and journal.

## Summary of reading (X) and resetting (Z) reports and the key operations to obtain the reports

X1 and Z1 reports: Daily sales reports
X2 and Z2 reports: Periodic (monthly) consolidation reports

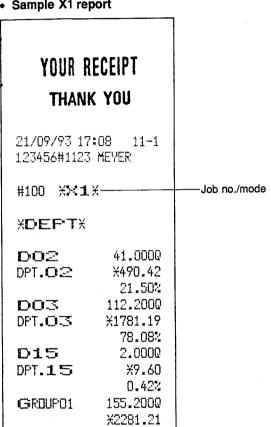
|                           |                      | ,      |             |                          |  |
|---------------------------|----------------------|--------|-------------|--------------------------|--|
| Item                      | Mode switch position |        | Job<br>code | Key operation            |  |
|                           | X1/Z1                | X2/Z2  | 5550        |                          |  |
| General report            | X1, Z1               | X1, Z1 | 100         | Reading                  |  |
| (Full item report)        |                      | X2, Z2 | 200         | 100 Nesetting            |  |
|                           | X1, Z1               | X1, Z1 | 150         | Reading  150             |  |
| Full cashier report       |                      | X2, Z2 | 250         | 150                      |  |
| <u> </u>                  | X1, Z1               | X1, Z1 | 151         | Reading  151             |  |
| Individual cashier report |                      | X2, Z2 | 251         | 151                      |  |
|                           | <0P X/Z><br>X, Z     |        | 51          | Reading  S1  Resetting   |  |
| Full department           | X1                   | X1     | 110         | 110                      |  |
| report                    |                      | X2     | 210         | 210                      |  |
| Individual group          | X1                   | X1     | 112         | 112                      |  |
| report of dept.           |                      | X2     | 212         | 212                      |  |
| Group total report        | X1                   | X1     | 113         | 113                      |  |
|                           |                      | X2     | 213         | 213                      |  |
| Total in drawer report    |                      | X1     | 131         | 131 ──── <b>TL</b>       |  |
| Transaction report        | X1                   | X1     | 130         | 130 \overline{\text{TL}} |  |
| Transaction report        |                      | X2     | 230         | 230                      |  |

| Item                           | Mode switch position |        | Job<br>code | Key operation   |  |
|--------------------------------|----------------------|--------|-------------|---|--|
|                                | X1/Z1                | X2/Z2  |             |   |  |
| PLU report by designated range | X1, Z1               |        | 120         | Reading  120  Resetting  End PLU code  TL                     |  |
| PLU report by assigned dept.   | X1                   |        | 121         | 121   |  |
| PLU stock report               | X1                   |        | 124         | 124 Start PLU code S  End PLU code  TL                        |  |
| Hourly report                  | X1<br>X1, Z1         |        | 160         | 160   |  |
| Tiodily Tepon                  |                      |        |             | Reading  160   Resetting                                      |  |
| Daily net report               |                      | X2, Z2 | 270         | Reading  Performing job #200 will clear the daily net totals. |  |
| Stacked report                 | X1, Z1               | X1, Z1 | 190         | Reading   |  |
| Stacked Teport                 |                      | X2, Z2 | 290         | 190   |  |

### - SAMPLE REPORTS -

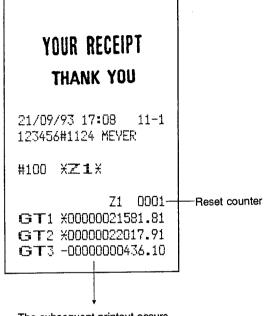
## 1. General report (Full item report)

Sample X1 report



32.18%

Sample Z1 report



The subsequent printout occurs in the same format as in the sample X1 report.

| XDEPT TL                  | 691.7650<br>%7089.46<br>100.00%        |
|---------------------------|--|
| D20<br>DPT.20<br>DEPT(-)  | 7.000Q<br>-14.30<br>7.000Q<br>-14.30   |
| D16<br>DPT.16<br>XHASH TL | 4.000Q<br>%12.50<br>4.000Q<br>%12.50   |
| D17<br>DPT.17<br>HASH(-)  | 11.0000<br>-35.75<br>11.0000<br>-35.75 |

|  | _  |
|--|--|
| D18<br>DPT.18<br>XBTTL TL                        | 4.0000<br>X14.70<br>4.0000<br>X14.70                             |
| D19<br>DPT.19<br>BTTL(-)                         | 10.000Q<br>-25.85<br>10.000Q<br>-25.85                           |
| XTRANS. X  |  |
| (-)2<br>(-)4<br>SET PLU-<br>722                  | 30<br>-0.25<br>10<br>-2.00<br>*90.90                             |
| 724  | X0.00<br>20<br>−9.80   |
| HET1   | X7051.96   |
| DIFFER TAX1 ST VAT 1 TAX2 ST VAT 2 TAX3 ST VAT 3 | X0.00<br>X154.69<br>X3.22<br>X91.16<br>X6.07<br>X328.30<br>X0.55 |
| TTL TAX<br>NET<br>NET2                           | X9.84<br>X7042.12<br>X7061.80                                    |
| (-)1<br>(-)3                                     | 40<br>-3.00<br>20<br>-4.50                                       |
| **************************************           | 20<br>-1.34  |
| 743  | 20   |
| CP PLU   | -4.35<br>40<br>-48.45  |

To be continued

| REFUND   | 50<br>249.50<br>210<br>210<br>210<br>20<br>20<br>20<br>20<br>20<br>2180.97<br>30<br>225.50<br>20 |
|--|--|
| VP CNT SLIP CNT ND SALE XXXPBAL XXXNBAL G.C. CNT GUEST | X6.30<br>210<br>00<br>70<br>20<br>20<br>30<br>2310   |
| ORDER TL PAID TL AVE. U XXXRA XXXRA2 XXXPD             | *7038.55<br>*7038.55<br>*30.47<br>*0.00<br>4Q<br>*72.50<br>1Q<br>*25.00<br>4Q<br>*61.00<br>3Q    |
| CA/CHK   | %75.00<br>10<br>%20.00   |
| CASH<br>CASH2  | 1440<br>*4559.83<br>180<br>*333.54   |
| CHECK  CREDIT1  CREDIT2                                | 70   |
|  | X20(±07  |

To be continued on the next page

| CREDIT8            | 140                |
|--------------------|--------------------|
| EXCH1              | ¥415.80<br>20      |
| DOM.CUR1           | 55.00<br>¥22.26    |
| EXCH2              | 10                 |
| DOM.CUR2           | 26.60<br>¥47.50    |
| EXCH3              | 20<br>47-01        |
| DOM.CUR3           | ¥60.10             |
| EXCH4              | 10<br>26.16        |
| DOM.CUR4           | %43.60<br>%4859.06 |
| *CH ID             | *34.20             |
| CA/CH ID<br>CHK/CG | %4933.26<br>%3.05  |
|                    |                    |

## 2. Full department report

### Sample X1 report

| YOUR R                     |                                |
|----------------------------|--------------------------------|
| 21/09/93 17<br>123456#1125 |                                |
| #110 XX1<br>XDEPTX         | X                              |
| DO2<br>DPT.O2              | 12.0000<br>%143.32<br>12.18%   |
| DO3<br>DPT.O3              | 88.200Q<br>*1024.24<br>87.01%  |
| D15<br>DPT.15              | 2.000Q<br>%9.60<br>0.82%       |
| GROUP01                    | 102.2000<br>X1177.16<br>29.15% |
| DO4<br>091.04              | 21.0000<br>%247.96<br>59.99%   |
| D05<br>DPT.05              | 52.0000<br>%165.40<br>40.01%   |
| GROUP02                    | 73.0000<br>%413.36<br>10.24%   |

| D20<br>DPT.20<br>DEPT(-)  | 7.0000<br>-14.30<br>7.0000<br>-14.30   |
|---------------------------|--|
| D16<br>DPT.16<br>XHASH TL | 6.000Q<br>%18.80<br>6.000Q<br>%18.80   |
| D17<br>DPT.17<br>HASH(-)  | 10.0000<br>-18.75<br>10.0000<br>-18.75 |
| D18<br>DPT.18<br>XBTTL TL | 6.0000<br>%24.20<br>6.0000<br>%24.20   |
| D19<br>DPT.19<br>BTTL(-)  | 8.0000<br>-21.85<br>8.0000<br>-21.85   |
| SET PLU-                  | X30.30                                 |

| D12      | 26.000Q          |
|----------|------------------|
| DPT.12   | X199.05          |
|          | 200-0            |
| GROUP09  | 26.000Q          |
|          | %199 <b>.</b> 05 |
|          | 4.93%            |
| XDEPT TL | 528.7650         |
|          | X4038.58         |
|          | 100.00%          |
|          |                  |

## 3. Individual group report of dept.

## YOUR RECEIPT THANK YOU

21/09/93 17:09 11-1 123456#1126 MEYER

#112 XX 1 X X GROUP X

DO2 12.0000
DPT.O2 X143.32
DO3 88.2000
DPT.O3 X1024.24
D15 2.0000
DPT.15 X9.60
GROUPO1 102.2000
X1177.16

## 4. Group total report

## YOUR RECEIPT THANK YOU

21/09/93 17:10 11-1 123456#1127 MEVER

#113 XX1X X GROUP X

GROUP01 102.2000 %1177.16 29.15%

GROUP02 73.0000 \*413.36

10.24%

| GROUP09  | 26.0000<br>*199.05<br>4.93%     |
|----------|---------------------------------|
| XDEPT TL | 528.7650<br>%4038.58<br>100.00% |
| DEPT(-)  | 7.000Q<br>-14.30                |
| XHASH TL | 6.000Q<br>X18.80                |
| HASH(-)  | 10.0000<br>-18.75               |
| XBTTL TL | 6.000Q<br>%24.20                |
| BTTL(-)  | 8.0000<br>-21.85                |

## 5. PLU report by designated range

Sample X1 report

#### YOUR RECEIPT THANK YOU 21/09/93 17:10 11-1 123456#1128 MEYER #120 XX1X X PLU X 0001- 0020--Range F\*0001 8.000Q PLU0001 X50.05 F-0002 17.000Q PLU0002 X71.20 25.0000 F-0003 PLU0003 **X40.00** F-0004 26.0000 PLU0004 X509.56 F-0005 13.0000 PLU0005 X158.50 F-0006 22.0000 PLU0006 86.08

| F-0019<br>PLU0019<br>F-0020<br>PLU0020 | 10.000Q<br>%235.00<br>7.000Q<br>%75.48 |
|--|--|
| XXXTOTAL                               | 264.5650<br>X2552.83                   |
| SET PLU-                               | ¥30.30                                 |
| XSET PLU X<br>₱0011<br>PLU0011         | 3.0000<br>X30.30                       |
| XXXTOTAL                               | %30°30<br>3°0000                       |

## 6. PLU report by assigned dept.

• Sample X1 report

## YOUR RECEIPT THANK YOU

21/09/93 17:10 11-1 123456#1129 MEYER

#121 XX1X X PLU X

DPT.O2 D02--Dept. no. F\*0002 17.000Q X71.20 PLU0002 F-0003 25.0000 X40.00 PLU0003 10.1260 F-0007 X81.76 PLU0007 F-0009 7.0630 X16.00 FLU0009 F-0010 74.0630 PLU0010 X1172.66 XXXTOTAL. 133.2520 X1381.62 SET PLU-**X30.30** XSET PLU X XXXTOTAL 0.0000 X0.00

## 7. PLU stock report

## YOUR RECEIPT THANK YOU

21/09/93 17:11 11-1 123456#1130 MEYER

\_\_\_\_Range

#124 XX1X X STOCK X

|                    | 0001- | 0010-  |
|--------------------|-------|--------|
| F*0001             | 0001- | 0010   |
| PI 110001          | 1     | .500S  |
| P-0002             | _     |        |
| PLU0002            | 1     | .2208  |
| F-0003             |       | 1      |
| PLU0003            | 0     | .800S  |
| F-0004             |       | İ      |
| PLU0004            | 1     | .580S  |
| F-0005             |       | 7/00   |
| PLU0005            | 1     | .368S  |
| ₽LU0006<br>₽LU0006 |       | .000s  |
| F-0007             | 1.1   |        |
| PLU0007            | A3    | .874S  |
| F-0008             |       |        |
| PLU0008            |       | .6875  |
| F-0009             |       |        |
| FLU0009            | 1     | .437S  |
| F-0010             |       |        |
| PLU0010            | (     | ).937S |
|                    |       |        |

119

## 8. Transaction report

### Sample X1 report

| YOUR F   | IECEIPT<br>K YOU   |
|--|--|
| 21/09/93 17<br>123456#1131                       | 7:11 11-1<br>MEYER   |
| #130 XX1<br>X TRANS. X                           | X  |
| XDEPT TL   | 691.765Q   |
| DEPT(-)  | ₹7089.46<br>7.000Q   |
| XHASH TL   | -14.30<br>4.000Q   |
| HASH(-)  | *12.50<br>11.0000  |
| XBTTL TL   | -35.75<br>4.000Q   |
| BTTL(-)  | %14.70<br>10.0000<br>-25.85                                      |
| <del>(-)</del> 2                                 | 30   |
| <b>(−&gt;4</b>                                   | -0.25<br>10  |
| SET PLU-<br>№2                                   | -2.00<br>%90.90<br>20  |
| ≈4   | ¥0.00<br>20<br>−9.80   |
| NET1   | * <b>70</b> 51.96  |
| DIFFER TAX1 ST VAT 1 TAX2 ST VAT 2 TAX3 ST VAT 3 | X0.00<br>X154.69<br>X3.22<br>X91.16<br>X6.07<br>X328.30<br>X0.55 |
| TTL TAX NET NET2                                 | X9.84<br>X7042.12<br>X7061.80                                    |

|  | _   |
|--|---|
| (-) <b>1</b>   | 4Q  |
| (-)3   | -3.00<br>20<br>/ 50                                     |
| **************************************                 | -4.50<br>20   |
| 7473   | -1.34<br>20   |
| CP PLU   | -4.35<br>40<br>-48.45                                   |
| REFUND   | 5Q  |
| €3   | %49.50<br>21Q   |
| ₩ MODE   | ¥92.36<br>10  |
| MGR 0  | 00.00%<br>20  |
| SETL 0   | ¥60.00<br>9Q  |
| HASH ø   | ∺2180.97<br>3Q  |
| HASH RF  | ¥25.50<br>20  |
|  | X6.30   |
| VP CNT SLIP CNT ND SALE XXXPBAL XXXNBAL G.C. CNT GUEST | 210<br>00<br>70<br>20<br>20<br>30<br>2310               |
| ORDER TL<br>PAID TL<br>AVE.<br>D-F<br>XXXRA            | %7038.55<br>%7038.55<br>%30.47<br>%0.00<br>40<br>%72.50 |
| XXXRA2   | */2.30<br>10<br>*25.00                                  |
| XXXPO  | 4Q<br>461.00  |
| XXXPO2   | 30<br>%75.00  |

|   | <                         |
|---|---------------------------|
| CA/CHK  | 10<br>X20.00              |
| CASH  | 1440<br>¥4559.83          |
| CASH2   | 180<br>333.54             |
| CHECK   | 70                        |
| CREDIT1   | ¥83.70<br>240<br>∀430.70  |
| CREDIT2   | ¥678.79<br>130<br>∀7/7.00 |
| CREDIT3   | X367.89<br>30             |
| CREDIT4   | *177.95<br>10             |
| CREDIT5   | *88.30<br>10              |
| CREDIT6   | %91.35<br>20              |
| CREDIT7   | ¥70.95<br>20              |
| CREDIT8   | *22.30<br>140             |
| EXCH1   | *415.80<br>20             |
| DOM.CUR1<br>EXCH2                                   | 55.00<br>*22.26<br>10     |
| DOM.CUR2<br>EXCH3                                   | 26.60<br>*47.50<br>20     |
| DOM.CUR3<br>EXCH4                                   | 47.01<br>*60.10<br>10     |
| DOM.CUR4<br>XXXXCID<br>XCH ID<br>CA/CH ID<br>CHK/CG | 26.16                     |

## 9. Total in drawer report

#### YOUR RECEIPT THANK YOU 21/09/93 17:11 11-1 123456#1132 MEYER #131 XX1X \* TL-ID \* EXCH1 20 55.00 DOM.CUR1 X22.26 EXCH2 10 26.60 DDM.CUR2 X47.50 EXCH3 20 47.01 DOM.CUR3 X60.10 EXCH4 10 26.16 DOM.CUR4 X43.60 XXXXCID X4349.12 ¥66.20 XCH ID X4455.32 CA/CH ID

### 10. Cashier report

### (1) Individual cashier report

#### • Sample X1 report

#### YOUR RECEIPT THANK YOU 21/09/93 17:12 11-1 123456#1133 MEYER #151 XX1X XCASHIER X 01CSR#111 MEYER ¥6852.38 PAID TL 30 REFUND X40.00 180 43 X82.86 MODE 10 %40.00 MGR 0 00 X0.00 90 SETL 0 ¥2180.97 00 G.C. CHT **GUEST** 2150 40 XXXRA X72.50 10 XXXRA2 X25.00 40 XXXPO **%61.00** XXXPO2 30 X75.00 10 CA/CHK X20.00 1340 CASH X4621.53 160 CASH2 X315.25 70 CHECK **\*83.70** 210 CREDIT1 **X467.75**

#### • Sample OP X report



The subsequent printout occurs in the same format as in the sample X1 report.

|   | ,                     |
|---|-----------------------|
| CREDIT8   | 140<br>¥415.80        |
| EXCH1   | 20<br>55.00           |
| DOM.CUR1<br>EXCH2                                   | ¥22.26<br>10          |
| DOM.CUR2<br>EXCH3                                   | 26.60<br>%47.50<br>20 |
| DOM.CUR3<br>EXCH4                                   | 47.01<br>*60.10<br>10 |
| DOM.CUR4<br>XXXXCID<br>XCH ID<br>CA/CH ID<br>CHK/CG | 26.16                 |
|   |                       |

#### (2) Full cashier report

#### • Sample X1 report

## YOUR RECEIPT THANK YOU

21/09/93 17:12 11-1 123456#1135 MEVER

#150 XX1X XCASHIER X

XXXXCID X4902.47 XCH ID X34.20 CA/CH ID X4976.67 CHK/CG X3.05

XXXXCID X3744.24 XCH ID X206.45 CA/CH ID X3950.69 CHK/CG X0.00

XXXXCID X5637.74 XCH ID X50.29 CA/CH ID X5688.03 CHK/CG X0.00

04CSR#14

XXXXCID X18251.43 XCH ID X567.58 CA/CH ID X18859.01 CHK/CG X3.05

## 11. Hourly report

#### Sample X1 report

#### YOUR RECEIPT THANK YOU 21/09/93 17:13 11-1 123456#1136 MEYER #160 XX1X X HOURLY X 200 11:00 X799.45 **X39.97** AVE. 11:30 220 X1380.47 X62.75 AVE. SUBTOTAL 420 X2179.92 230 12:00 X1649.55 AVE. X71.72 12:30 290 X1440.93 X49.69 AVE. SUBTOTAL 52Q X3090.48

| AVE.     | X13.44      |
|----------|-------------|
| SUBTOTAL | 540         |
|          | ¥865.15     |
| 21:00    | 340         |
| ł        | ¥517.00     |
| AVE.     | X14.36      |
| SUBTOTAL | 34 <b>0</b> |
|          | X517.00     |
| 4        |             |

## 12. Daily net report

• Sample X2 report

#### YOUR RECEIPT THANK YOU 25/09/93 17:13 11-1 123456#1138 MEYER #270 XX-C2X \* DAILY \* 21/09 4270 X21633.51 22/09 3990 X23992.05 4070 23/09 X29010.32 24/09 2140 X17324.81 204Q 25/09 X20112.75 16510 XXXTOTAL X112073.44

## COMPULSORY CASH/CHEQUE DECLARATION

 If your machine has been programmed for compulsory cash/cheque declaration, you must declare cash/cheque in drawer in advance according to the type of the declaration when you take cashier Z reports.

Use the procedure shown in 3 below for this declaration.

#### 2. Types of compulsory cash/cheque declaration

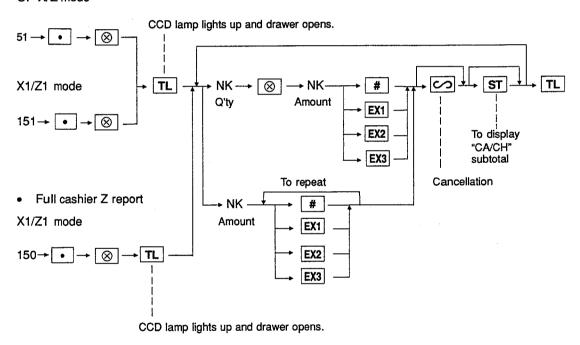
- (1) Compulsive when individual cashier resetting is taken
- (2) Compulsive when full cashier resetting is taken

Note: Compulsory cash/cheque declaration is available in the above two types. You can choose either of these. Consult your local dealer for details.

#### 3. Key operation

• Individual cashier Z report

OP X/Z mode



# : For CA/CH ID, EX1 - EX3 : For foreign currency ID

## YOUR RECEIPT THANK YOU

21/09/93 17:13 11-1 123456#1140 MEYER

#151 XZ1X XCCD X

.60 [ ]

\*CASHIER \*

DOM.CUR2

XXXXCID

DIF. TL

CHK/CG

01CSR#11 MEYER
PAID TL %17986.13
REFUND 30
%40.00

-CCD entry amount

-EXCH1 in drawer to be obtained

-Cash in drawer to be obtained

-Cheque in drawer to be obtained

-Cash/cheque in drawer to be obtained

-Total of entered (declared) cash/cheque in drawer

-Total of entered (declared) EXCH1 in drawer -Difference

EXCH2 IS 26.60 0.00 CCD DIF. 20 EXCH3 47.01 DOM.CUR3 X60.10 47.01 EXCH3 IS 0.00 CCD DIF. EXCH4 10 26.16 DOM. CUR4

%43.60 %15333.07-

**¥47.50** 

-0.10———Difference -0.10——Total of difference X3.05 127

## **OPERATOR MAINTENANCE**

### 1. In case of power failure

When power is lost, the machine retains its memory contents and all information on sales entries.

- (1) When power failure is encountered in register idle state or during an entry, the machine returns to the normal state of operation after power recovery.
- (2) When power failure is encountered during a printing cycle the register prints "======" and then carries out the correct printing procedure. (See the sample print.)



### 2. In case of printer's motor locking

If the printer's motor happens to lock, the printing stalls, display disappears, and intermittent bleeping starts. You must, first of all, turn the power switch off, cut the power supply, and repair the paper jam. And then, when switched on, the following format appears in the display.

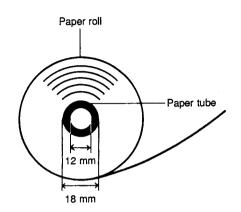
Feed the roll paper to the proper position and depress the CL key. The register carries out the power failure symbol and continues printing.

## 3. Paper roll near-end sensing function (only for journal paper) <option>

When the journal paper roll comes near the end or is not loaded, the machine senses this condition and sounds an alarm, displaying the error code "E04". At this time, clear the alarm with the CL key and replace the paper roll as soon as possible.

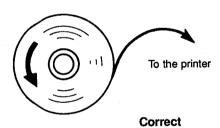
The following entry can be made after clearing the alarm. However, since this function works each time one transaction is completed, the alarm sound will be emitted again as the following transaction is completed unless the paper roll is replaced.

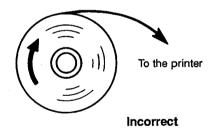
- The sensing position depends upon the size of the paper tube. Therefore, it is advisable to use paper rolls – whose paper tube is 18 mm in O.D. and 12 mm in I.D. – specified by SHARP.
- If the sensing occurs too early or late, contact your dealer.



## 4. Installing and removing the paper roll

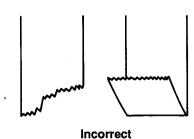
Install the paper roll in the printer. Be careful then to set the roll and cut the paper end correctly. (How to set the paper roll)

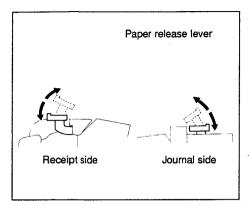




(How to cut the paper end)



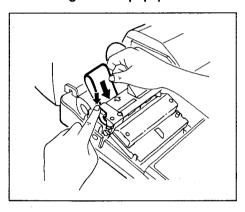




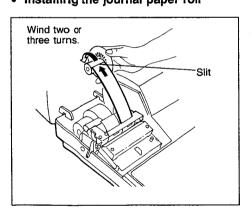
To remove a paper jam, pull the paper release lever. To release the paper, press the lever down.

#### 4-1. Installing the paper roll

#### • Installing the receipt paper roll



#### • Installing the journal paper roll



- Open the printer cover.
   Set the paper roll correctly as illustrated and drop it into the printer.
- (2) Press the receipt paper release lever down and insert the paper end into the paper chute of the printer. Pull the paper end that has come out of the printer, holding down the lever.
- (3) Advance the paper by a required length by pressing the receipt paper feed key.

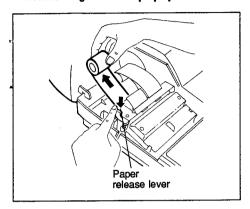
Note: Make sure the ink ribbon cassette has been mounted on the printer when installing the receipt paper roll.

- Open the printer cover.
   Set the paper roll correctly and drop it into the printer.
- (2) Press the journal paper release lever down, insert the paper end that has come out of the printer, into the slit in the paper take-up spool, wind it two or three turns around the spool shaft, and set the spool on the bearing.

#### 4-2. Removing the paper roll

When a red dye appears on the paper roll, it is time to replace the existing paper roll. Replace the paper roll with a new one.

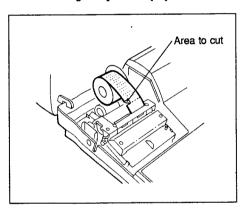
#### · Removing the receipt paper roll



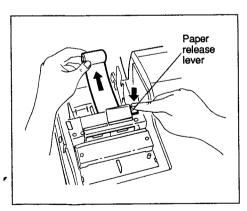
- (1) Open the printer cover.
- (2) Press and hold the receipt paper release lever down and draw out the existing paper roll from the paper roll location.

Note: Be sure to pull the roll in the direction of the arrow.

#### · Removing the journal paper roll

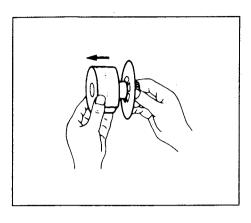


(1) Press the journal paper feed key to advance the paper by several lines and then cut it.

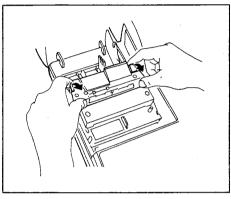


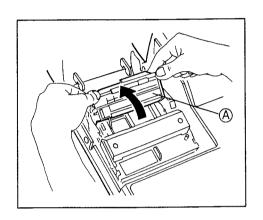
(2) Press and hold the journal paper release lever down and remove the existing paper roll from the paper roll location.

Note: Be sure to pull the roll in the direction of the arrow.



(3) Remove the paper roll from the take-up spool.





Pulling the receipt and journal paper release levers at a time, lift part (A) up. Remove a paper jam and replace part (A) gently.

#### Request

Be sure to use paper rolls specified by SHARP.

The use of any other paper rolls than specified could cause paper jamming, resulting in register malfunction.

Paper specification

Paper width:

44.5 ± 0.5 mm

Max. outside diameter:

80 mm

Weight:

 $52.3 - 64.0 \text{ g/cm}^2 (45 - 55 \text{ kg}/1000 \text{ sheets}/788 \times 1091 \text{ mm}^2)$ 

Quality:

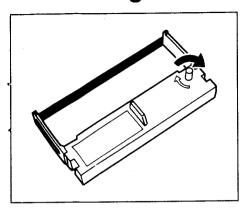
bond paper

Paper tube:

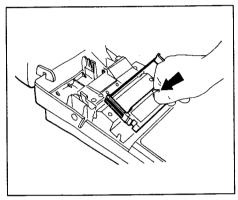
18 mm

• Be sure to set paper roll(s) prior to using your machine, otherwise it could malfunction.

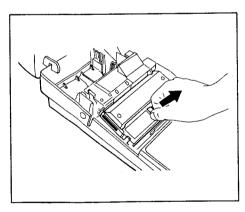
## 5. Installing the ink ribbon cassette



- (1) Open the printer cover and the ribbon cover.
- (2) Rotate the knob on the ink ribbon cassette in the direction of the arrow to stretch the ribbon tight.



- (3) Put the ink ribbon cassette in the location indicated in the figure at left and fix it by using the right and left pawls.
- (4) Rotate the knob two or three turns in the direction of the arrow to make sure it rotates smoothly. Also, make sure the ribbon is not folded.

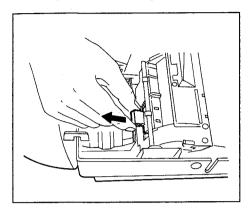


(5) To remove the cassette, lift it up.

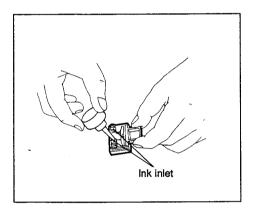
Request: Be sure to use ink ribbon cassettes specified by SHARP. The use of any cassettes other than specified could cause troubles in the printer.

#### 6. Ink refill

If the logo becomes too light, refill it with the supplied logo ink following the procedure given below.



- (1) Open the printer cover.
- (2) Remove the store name logo by pulling it in the direction of the arrow.



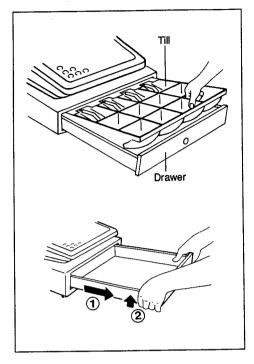
- (3) Pour two or three drops of logo ink through the ink inlet situated on the back of the logo.
- (4) Replace the logo by the reverse procedure of removing.
- (5) Shut the printer cover.

#### **Precautions**

- 1. The logo ink first gives a clear print 10 to 15 hours after being poured into the logo. Therefore, refilling after the daily business is most effective.
- 2. Overinking should be avoided. This will create a blurry print.
- The ink is exclusively used for the logo.Do not apply the ink to the ink ribbon and ink roller.
- \* When the supplied ink is exhausted, purchase the logo ink specified by SHARP.

## 7. Removing the till and the drawer

The till in the register is detachable. After closing your business for the day remove the till from the drawer and keep the drawer open. This will prevent money from being stolen. To detach the drawer, pull it forward fully with the till removed, and draw it out by lifting it up.



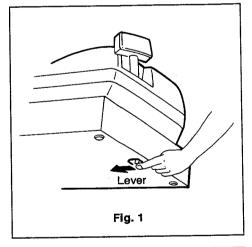
## 8. Opening the drawer by hand

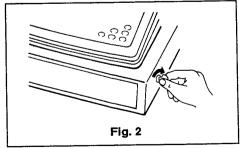
The drawer automatically opens in the usual way, however, when power failure is encountered or the machine becomes out of order, open the drawer by following the procedure below.

Push the lever in the opening located on the machine bottom toward the front. (See Fig. 1.) However, the drawer will not open, if it is locked.

#### (For the set delivered to the U.K. or Australia)

Insert the key into the drawer lock and turn it 90 degrees clockwise. (See Fig. 2.)





### 9. Before calling for service

The malfunctions shown in the left-hand column below, labeled "Fault," do not necessarily indicate functional faults of the machine. It is therefore advisable to refer to the "Checking" shown in the right-hand column before calling for service.

| Fault  | Checking  |
|--|---|
| (1) The display won't be illuminated even when the mode switch is turned to any other position than "(1)". | <ul> <li>Is power supplied to the electric outlet?</li> <li>Is the power cord plug out or loosely connected to the electrical outlet?</li> <li>Is the power switch in the "ON" position?</li> </ul> |
| (2) The display is illuminated, but the whole machine refuses entries.                                     | <ul> <li>Is the cashier key held down or inserted?</li> <li>Is the mode switch set properly at the "REG" position?</li> </ul>   |
| (3) No receipt is issued.  | <ul> <li>Is the receipt paper roll properly installed?</li> <li>Is there a paper jam?</li> <li>Is the receipt ON-OFF switch in the "OFF" position?</li> </ul>                                       |
| (4) No journal paper is taken up.  | <ul> <li>Is the take-up spool installed on the bearing properly?</li> <li>Is there a paper jam?</li> </ul>  |
| (5) Printing is unusual.   | <ul> <li>Is the ink ribbon cassette installed properly?</li> <li>Is the ink ribbon's life completed?</li> </ul>   |

#### - Program resetting -

When the program resetting is performed, the register returns to the initial state with the memories all kept intact. If you need this function please contact your local dealer.

#### < Procedure >

- 1) Set the power switch to the OFF position.
- 2) Turn the mode switch to the "PGM2" position.
- Set the power switch to the ON position, keeping the receipt paper feed and journal paper feed keys depressed.

After the operation the printer prints "PRG. RESET \*\*\* " on the journal.

If the register still malfunctions even after program resetting, contact your local dealer.

## LIST OF OPTIONS

For your ER-A550, the following options are available. Do not try to install any options yourself. For details, contact your dealer.

- 1. RAM memory chip model ER-01RA/02RA (32KB/128KB)
- 2. Remote drawer model ER-02DW
- 3. Till model ER-38CC and till cover model ER-38CV1/CV2/CV3/CV4/CV5
- 4. 2 port RS232C interface model ER-A5RS
- 5. IRC and RS232C interface model ER-A5IN
- RS232C and inline control ROM model ER-A55R1 (If you use slip printer or manual PB+/PB-, you need this ROM.)
- 7. Slip printer model ER-31SP
- 8. Remote printer model ER-02RP
- 9. Connection cable (ECR to ECR) model ER-A5CB
- 10. One hole cashier switch model ER-A5CL

## **SPECIFICATIONS**

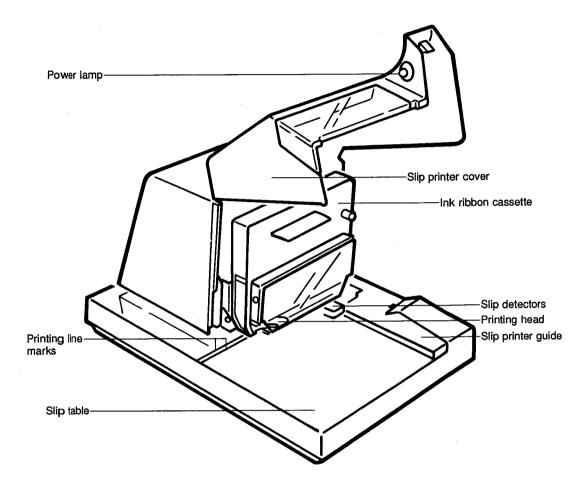
| Model:   | ER-A550   |
|--|---|
| External dimensions:   | 440 (W) x 496 (D) x 323 (H) mm  |
| Weight:  | 16.8 kg<br>17 kg (the set delivered to the U.K. or Australia)   |
| Power source:  | Official (nominal) voltage and frequency  |
| Power consumption:   | Stand-by 13 W<br>Operating 40 W   |
| Working temperature:   | 0°C to 40°C   |
| Electronics:   | LSI (CPU), etc.   |
| Built-in battery:  | Ni-Cd rechargeable battery, memory holding time about 1 month (with fully charged built-in battery, at room temperature)  |
| Display:   | Operator display: 7-segment display (11 positions) Customer display: 7-segment display (7 positions)  |
| Printer: Type: Printing speed: Printing capacity: Other functions: | 2-station serial dot-matrix (7x7 font) printer 2.5 lines/second 21 digits each for receipt and journal paper 1. Logo function 2. Receipt ON-OFF switch, journal selective function 3. Receipt and journal independent paper feed function 4. Validation printing function |
| Ink ribbon:<br>(Cassette type)                                     | Color: Purple (single color) Width: 13 mm Length: 9 meters  |
| Logo:  | Dimensions of the printing face: 30(W) x 20(H) mm   |
| Paper roll:  | Width: $44.5 \pm 0.5$ mm<br>Max. diam.: 80 mm<br>Weight: $52.3 - 64.0$ g/m <sup>2</sup> (bond paper)  |
| Cash drawer:   | 4 slots for bills, and 8 for coins  |

| Accessories: | Manager key               | 2                                   |
|--------------|---------------------------|-------------------------------------|
|              | Submanager key            | 2                                   |
|              | Operator key              | 2                                   |
|              | Drawer lock key           | 2                                   |
|              | Printer cover lock key    | 2                                   |
|              | Ink ribbon cassette       | 1                                   |
| f            | Standard logo             | 1 (mounted on the printer)          |
|              | Logo ink                  | 1 (5 cc)                            |
| •            | Paper roll                | 2                                   |
|              | Take-up spool             | 1                                   |
|              | Key sheet for the         |                                     |
|              | standard keyboard layout  | 1 (placed under the keyboard cover) |
|              | Key sheet for programming | 1                                   |
|              | Instruction manual        | 1 copy                              |

<sup>\*</sup> Specifications and appearance subject to change without notice for improvement.

## SLIP PRINTER (OPTION) MODEL ER-31SP

## 1. Physical characteristics



### 2. Slip

#### 2-1. Selecting slips

Slips used for the slip printer must conform to the following standard. The use of slips that do not meet the standard causes problems, such as difficult seating of them or blurry printing.

#### (1) Paper specifications

Ordinary paper

• Thickness: 0.09 to 0.45 mm

#### (2) Form

Ordinary paper + carbon paper, or printing paper

#### (3) Dimensions

Width: 70 to 210 mm Length: 90 to 297 mm

Observe the dimensions shown in il-

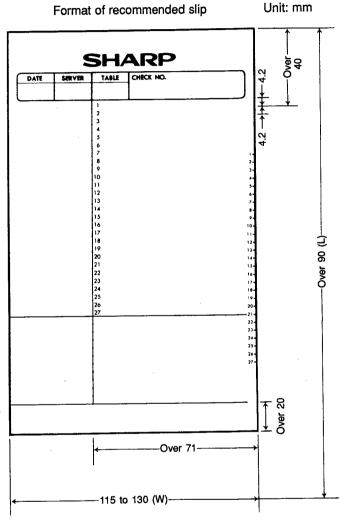
lustration at right.

For details, contact your dealer.

#### (4) Numbering

Print numbers as shown in illustration at right.

The numbers printed in the center indicate the serial numbers of printing lines, and the numbers at the right side are used to line up the slip in order to print on the proper lines. The number 1 is printed on the 7th line from above as shown in illustration at right, and the subsequent numbers are printed on the following underlines in sequence.



#### 2-2. Use of slips available in the market

Select slips which have dimensions specified in (1) and (3) of item "2-1. Selecting slips" above.

### 3. Printing position, alignment of slips

Every printing occurs between two red line marks A and B on the slip table.

#### 3-1. At the use of recommended slips

Place the slip along the slip printer guide. Feed it deep into the slip printer (in the direction of arrow  $\oplus$ ) until it touches the stopper in the table.

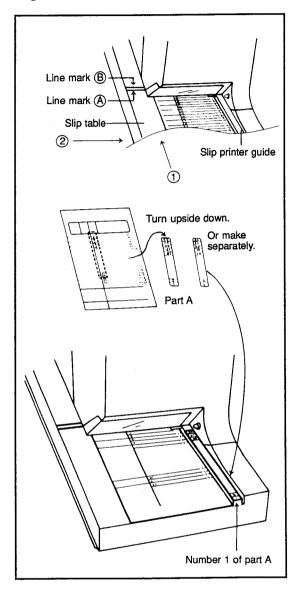
Printing starts on the line just above the printing line No. 1 (within the frame of table/check No.). Make sure this line is between marks (A) and (B).

If you want print on a line halfway on the slip, the slip can be inserted in the direction of arrow ② too.

## 3-2. Using other slips that are available on the market

Hold a slip in parallel to the slip printer guide, and align the printing area (line) with the zone between two red line marks on the slip table.

- The following method is also available.
- (1) Insert a slip, and align the first printing line with the zone between line marks (A) and (B) on the slip table as to where you want the 1st line to print.
  - Make a notation on the slip printer guide where the bottom of the slip is located.
- (2) Cut the line numbers (part A) from the left side of the slip as shown in illustration at right.
- (3) Turn the part A cut off in step (2) above upside down, and glue it on the slip printer guide. When gluing the part A, it is necessary to align the number 1 with the notation that was made on the slip printer guide in step (1) above, which designates where the bottom of the slip is to be positioned in order to print on the 1st line of the slip. (If possible, make your own guide with the number right side up for easier reading.)
- (4) Perform the alignment for two or three lines and print to make certain part A is properly made and glued on the proper position.



### 4. Programming

For the outline of programming, consult the descriptions of programming (on page 18) for the ER-A550 cash register.

### 5. Operation

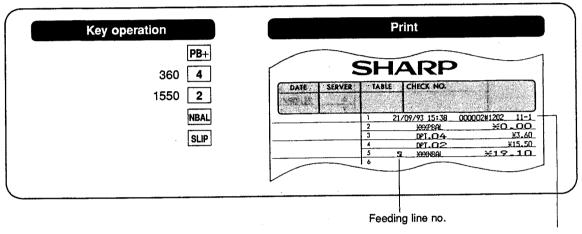
### 5-1. Printing transaction details on a slip

For the outline of operation, consult the descriptions of registration (on page 75) for the ER-A550 cash register.

### **Example using the Manual PB**

- 1 Insert a slip in the slip printer.

  Hold the slip in parallel to the guide, and advance the slip deep into the slip printer until it touches the
- 4 holder.
- ② Registration of first orders



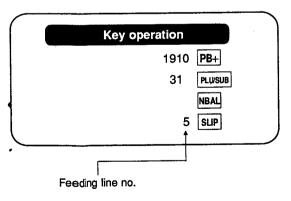
To start printing on this line, program "1" for the initial line spacing.

3 Draw out the slip after completion of printing.

When carrying out printing successively on the same side, it is not necessary to draw the slip out. It is necessary then to realign the printing line properly.

(4) Registration of additional orders

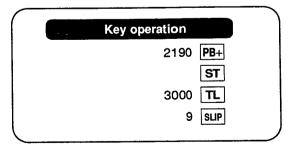
Insert a slip in the slip printer, and push the slip deep into the slip printer until it touches the holder.



When the initial line spacing has been programmed, the programmed number of line plus the specified number (5) of lines are skipped.

- (5) Same in step (3) above.
- **6** Charge registration

Insert a slip in the slip printer, and push the slip deep into the slip printer until it touches the holder.



#### Notes:

### 1. Changing the slip

When the machine judges that no line is left for printing on the first slip, "NEXT P." is printed at the end of the slip printing. When a new slip is inserted, printing starts from the first line of the new slip on depressing the sup key. If too many registration items are to be printed on the first slip and therefore you desire to print some of those items on the new slip, depress the "0" and sup keys. Printing will then start from the first line of the new slip. You may change the slip, leaving some lines on the first slip unprinted.

| SHARP |              |                        |  |                |  |  |
|-------|--------------|------------------------|--|----------------|--|--|
|       |              | BLE CHECK NO.          |  |                |  |  |
|       | 1            | e mate digesto.        | And the second second second           |                |  |  |
|       |              |                        |  |                |  |  |
|       | 1            | 21/09/93 17:01         | 000002#1217 11                         | -1             |  |  |
|       | 2            | XXXPBAL                | ¥∩0                                    | <u>n</u>       |  |  |
|       | 3            | DPT_014                | ¥3.                                    | <u>ፈጠ</u>      |  |  |
|       | 4            | DPT.02                 | X15.                                   |                |  |  |
|       | 5            | 5L XXXNBAL             | *19-1                                  | 0_             |  |  |
|       | 6            | 21/09/93_17:02         | 000002#1218 11                         | <u>-1</u>      |  |  |
|       | 7            | XXXPBAL                | <u> </u>                               |                |  |  |
|       | 8            | PLU0031                |  |                |  |  |
|       | 9            | 9L <del>XXX</del> MBAL |  |                |  |  |
|       | 10           | 21/09/93 17:02         |  | -1 4-          |  |  |
|       | 12           | XXXP8AL                | <u> </u>                               | D_ 5-          |  |  |
|       | 13           | XXXTOTAL_              | <u> </u>                               |                |  |  |
|       | 114          | CASH                   |  |                |  |  |
|       | 15           | CHANGE                 |  | 90_ s-         |  |  |
|       | 16           | BALANCE                | ×0.0                                   |                |  |  |
|       | 17           | ,                      |  | 10-            |  |  |
|       | 18           |                        | · · · · · · · · · · · · · · · · · · ·  | 11-            |  |  |
|       | 19           |                        |  | —— 12 <b>-</b> |  |  |
|       | 20           |                        |  | 13-<br>14•     |  |  |
|       | 21           |                        |  | 14•            |  |  |
|       | 22           |                        |  | 16•            |  |  |
|       | 23           |                        |  | 17•            |  |  |
|       | 24           |                        |  | 18-            |  |  |
|       | 25           |                        |  | 19-            |  |  |
|       | 26           |                        |  | 20-            |  |  |
|       | 27           |                        |  | 21-            |  |  |
|       |              |                        |  | 22-            |  |  |
|       | 1            |                        |  | 23-            |  |  |
|       |              |                        | <del>.</del>                           | 24-            |  |  |
|       |              |                        |  | 25-            |  |  |
|       |              |                        |  | 26-            |  |  |
|       | <del> </del> |                        |  | 27•            |  |  |
|       | <del> </del> |                        |  |                |  |  |
|       | <del> </del> |                        |  | - •            |  |  |
|       | +            |                        |  |                |  |  |
|       | 1            |                        |  | •              |  |  |
|       |              |                        | ······································ |                |  |  |

#### 2. Slip detectors

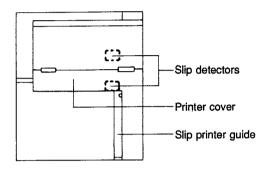
If the slip advances inward and is out of contact with the slip detectors in the course of printing, an error occurs.

In this case your register displays the error code "E25" and delivers an error alarm sound.

Meanwhile, the slip printer prints "NEXT P." on the slip and release its paper holder.

If such a situation occurs, clear the error by pressing the CL key, insert a new slip, and press the SLIP key.

The slip printer prints a header line (date, time, register no., consecutive no., and cashier code) on the slip and then prints the information which was not yet printed at the time of the error.



### 3. Slip printing compulsory or non-compulsory

Provided the cash register is programmed for "slip printing compulsory", the operation of the NBAL key or TL, CA2, CH, and CR1 through CR8 keys cannot be followed by any entry unless slip printing is executed. When the slip printing becomes in compulsory state, the machine state indicator "VP/SLIP" lights up. (The cash register is not set to "slip printing compulsory" after entering a no-sale, received money, paid-out.)

Provided the cash register is not programmed for "slip printing compulsory", no slip printing is required after each of the above-mentioned key operations.

For setting "slip printing compulsory" consult your dealer.

#### 4. Storage capacity

Your register is designed to store entered information first and then print it when the SLIP key is pressed after the finalization of a transaction.

Therefore, if it stores 70 lines of information, its storage capacity is fully used.

When the machine has been programmed for slip printing compulsory, the slip printing must be done at the "compulsory" set point.

If you make further entries under such a situation, an error occurs.

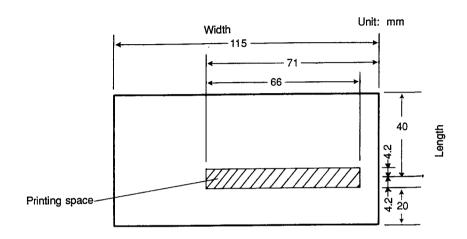
When the machine has been programmed for slip printing non-compulsory, no further registration will not be stored. Registrations can be continued, however. If the slip printing is made after the termination of registration, the items will not be printed, but the total amount along.

### 5-2. Validation printing

Connecting a slip printer to your register prevents its built-in printer from performing validation printing. Carry out validation printing by use of the slip printer.

After item entries or finalized transaction hold a validation slip to the slip guide, align with the printing line mark the area to print the information on, then press the **VP** key. This achieves validation printing.

Validation paper specifications and printing position
 Paper quality and thickness of validation slips must be the same as those of common slips. Observe the dimensions shown in the illustration below. The hatched area is printing space.



### 6. Mounting the ink ribbon cassette

- 1. For safety precautions, unplug your register.
- 2. Open the slip printer cover by pulling it towards you.
- 3. Mount the ink ribbon cassette on the printer. Be sure to observe the instructions.
  - Run the ink ribbon over the ink ribbon guide spring, under the printing head, and over the ink ribbon guide. (See Fig. 1.)

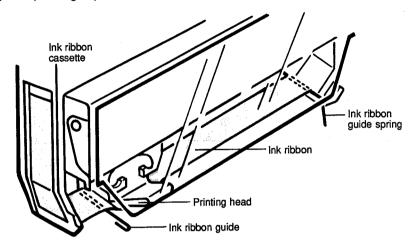
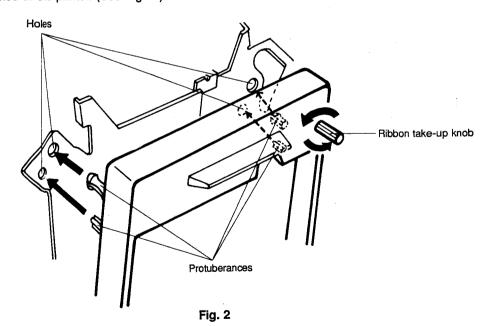


Fig. 1

• Perfectly fit the four protuberances on the back of the ink ribbon cassette into the corresponding four holes of the printer. (See Fig. 2.)

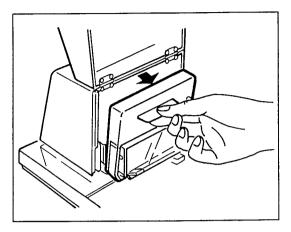


- 4. Rotate the ribbon take-up knob in the direction of the arrow to tense the ink ribbon. (See Fig. 2.)
- 5. Close the slip printer cover.

### 7. Replacing the ink ribbon cassette

When printing becomes faint, replace with a new slip printer ink ribbon cassette specified by SHARP.

- (1) For safety precautions, unplug your register. Open the slip printer cover by pulling upward.
- (2) Remove the existing ink ribbon cassette. Hold the knob at the center and pull the cassette toward you. (See the figure at right.)
- (3) Install a new ink ribbon cassette according to the procedure given in "Mounting the ink ribbon cassette" on page 147.
- (4) Close the slip printer cover.



### 8. Before calling for service

The malfunctions shown in left-hand column below, labeled "Problem", do not necessarily indicate a malfunction of the slip printer. It is therefore advisable to refer to the "Check" shown in the right-hand column before calling for service.

| Problem                          | Check  |
|----------------------------------|--|
| Any slip cannot be inserted.     | <ul> <li>Does the thickness of the slip satisfy the specification?</li> <li>Is the printer in the "release" condition? If the printer is not in the "release" condition, perform the following operation.  Turn the mode switch of your register to the PGM position, then press the SLIP key.</li> <li>Look for paper jam.</li> </ul> |
| 2. The slip swerves at printing. | Does the slip meet the specification?  |
| 3. No printing                   | <ul> <li>Is the slip inserted properly or is it in contact with the detectors?</li> <li>No faulty operation?</li> <li>Is the ink ribbon cassette fitted properly?</li> <li>Does the ink ribbon lack enough ink?</li> </ul>   |

If your printer still fails to work after the checking above, ask your dealer for servicing.

### 9. Specifications

Model: ER-31SP

External dimensions: 188 (W) x 265 (D) x 158 (H) mm

External dimensions of slip table: 136 (W) x 258 (D) mm

Weight: 3.8 kg

Operating temperature: 0°C to 40°C

Printing system: Serial dot-matrix (7 x 7 font) printer

Printing speed: Approx. 2.4 lines/sec.

Print column capacity: 35 columns

Allowable dimensions of slip: 70 (W) x 90 (L) mm to 210 (W) x 297 (L) mm

Allowable thickness of slip: 0.09 to 0.45 mm

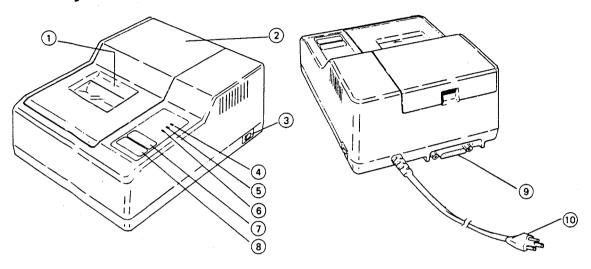
Ink ribbon: Housed in an endless cassette, purple in color

Accessories: Ink ribbon cassette 1 pc.

Test slip paper 2 sheets

# KITCHEN PRINTER (OPTION) MODEL ER-02RP

### 1. Physical characteristics



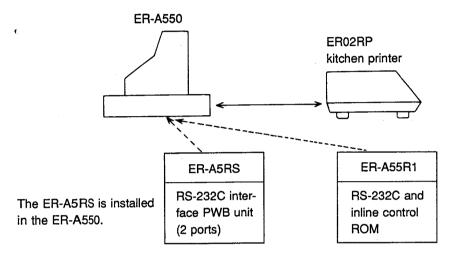
- (1) Paper outlet the printed receipt comes out here.
- 2 Printer cover serves to protect the printer against dust and to reduce the noise level of the printer. Install this cover correctly on the printer.
- 3 Power switch turns the ER-02RP on and returns its print head to the home position.
- 4 POWER lamp lights up when the power switch is set to the ON position, and goes off when the switch is set to the OFF position.
- (5) ON LINE lamp lights up when the ER-02RP enters the on-line mode; and goes off when it enters the off-line mode, the ER-02RP can print data only when this lamp is lit.
- 6 ALARM lamp lights up when the kitchen printer malfunctions. In this case the printer neither prints any data nor feeds the paper. The alarm state can be cleared by pressing the ON LINE switch or by setting the power switch to the OFF position and then back to the ON position.
- ON LINE switch allows the printer to enter the on-line or off-line mode. If this switch is pressed while the printer is printing, it prints out all of the input buffer data and then enters the off-line mode.
- (8) LINE FEED switch feeds the paper when the ER-02RP is in the off-line mode.
- (9) Interface connector used to connect the ER-02RP to the ER-A550. Before connecting, make sure to turn off the ER-02RP and unplug the ER-A550.
  The ER-A550 must be unplugged because the ER-02RP is energized even when it is in the OFF mode.
- (1) Power plug connected to a specified electrical outlet.

### 2. System configuration

This system is intended for data communications between the ER-A550 Electronic Cash Register and the ER-02RP Kitchen Printer in a restaurant or the like; it enables the ER-A550 to transmit orders from customers in the dining room to the ER-02RP in the kitchen.

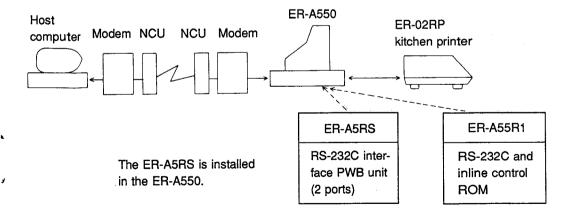
This system is available in the following two configurations:

### (1) Connection of the ER-A550 and the ER-02RP



### (2) Connection of an on-line data communication system and the ER-02RP

Both the ER-02RP kitchen printer and a host computer can be connected to the ER-A550. (Both cannot be operated simultaneously.)



Note: For the ER-02RP cable and the modem, consult your dealer.

### 3. Programming

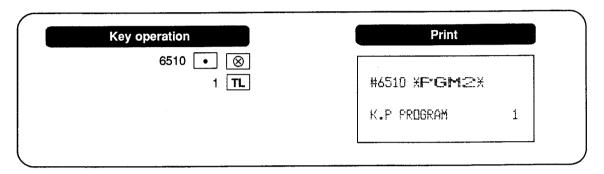
# 3-1. Programming whether to enable or disable the data transmission to the kitchen printer (PGM2 mode)

With this programming you can select whether to enable or disable the ER-A550 to transmit data to the ER-02RP kitchen printer.

#### **Procedure**



\*A: Data transmission to the kitchen printer; Enable/Disable = 1/0



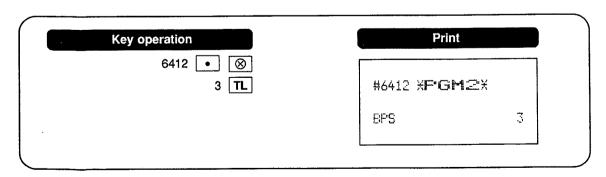
### 3-2. Programming of the transmission data rate (baud rate) (PGM2 mode)

#### Procedure



\* A: Baud rate 300 bps = 0 600 bps = 1 1200 bps = 2 2400 bps = 3

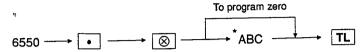
4800 bps = 4 9600 bps = 5



# 3-3. Programming to decide whether to skip the PLU/department code, unit price, and/or total amount during printing on the kitchen printer (PGM2 mode)

You can program the ER-A550 to cause the kitchen printer to skip the PLU/department code, unit price, and/or total amount.

#### **Procedure**



\* A: PLU/department code

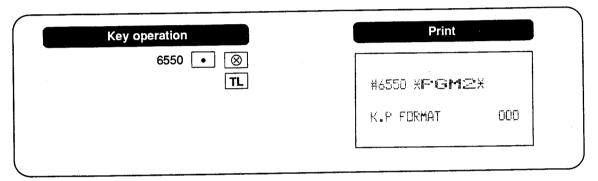
; Skip/Print = 1/0

B: Unit price

Skip/Print = 1/0

C: Total amount

; Skip/Print = 1/0

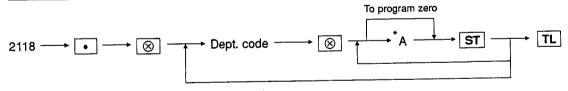


### 3-4. Programming of print stations (PGM2 mode)

### 1 Programming of print stations for department data (job #2118)

With this programming you can select the kitchen printer and the receipt printer of the register for the print station to print each individual department data. For details, see "Assigning print stations to department" on page 27.

#### **Procedure**



\* A: Printing on receipt = 2
Printing on on-line remote printer (kitchen printer) = 1
No printing = 0

### 2 Programming of print stations for PLU data (job #2218)

With this programming you can select the kitchen printer and the receipt printer of the register for the print station to print each individual PLU data. For details, see "Assigning print stations to PLUs" on page 35

### Procedure



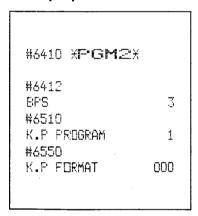
\*A: Printing on receipt = 2
Printing on on-line remote printer (kitchen printer) = 1
No printing = 0

### 3-5. Reading the contents of the kitchen printer programming (PGM2 mode)

### **Procedure**



### Sample printout



# 4. Data transmission to kitchen printers

### 4-1. Transmission of order data

1 If the kitchen printer has been programmed as a print station when an item (department or PLU) entry is made, order information within the transaction is edited for the kitchen printer and print data is transmitted to the kitchen printer.

### • Sample print on a kitchen printer

| 21/89/93 16/51 | !23456#            |
|----------------|--------------------|
| 1151 11-1      | MEYER              |
| 1 × 003        | 47.00              |
|                | DP1.03             |
|                | *47,00             |
| .3 ⊻ D04       | 15, <del>9</del> 8 |
|                | DPT.04             |
|                | *45,99             |
| R −1 × 1/94    | 15.00              |
|                | DPT.84             |
|                | -15.00             |

2 If an error occurs during data transmission to kitchen printers, a chit receipt is printed on the receipt printer of the register.

### • Chit receipt

| 21/09/93 16:51 11-1<br>123456#1161 MEYER |                                       |  |  |  |
|--|---------------------------------------|--|--|--|
| KP<br>DO3                                | 1× 47.00<br>DPT.C)3<br>X47.00         |  |  |  |
| D04                                      | 35x 15.00<br>DPT. <b>○4</b><br>¥45.00 |  |  |  |
| R<br>D04                                 | −1× 15.00<br>DPT. <b>○4</b><br>−15.00 |  |  |  |

### 4-2. Error messages, causes, and remedies

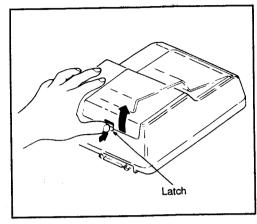
| Error message<br>(printed at the journal printer) | Causes and Remedy |   |  |
|---|-------------------|---|--|
| 1.  | Cause             | The kitchen printer and the register are not connected correctly, or the power switch on the kitchen printer is not turned on.  |  |
| KP DISCONNECT                                     | Remedy            | Connected the kitchen printer and the register correctly (consult your local dealer) or turn on the power switch on the kitchen printer.  |  |
| 2. KP NO SELECT                                   | Cause             | The ON LINE switch on the kitchen printer is not on. (When the ON LINE switch is on, the ON LINE lamp is illuminated.)  |  |
|   | Remedy            | Press the ON LINE switch to turn it on.   |  |
| 3.  | Cause             | The paper in the kitchen printer is out.  |  |
| KP PAPER EMPTY                                    | Remedy            | Press the ON LINE switch on the kitchen printer and make sure the ON LINE lamp is off. Then replace the paper roll with a new one. After the new paper roll is completely installed, press the ON LINE switch again to illuminate the ON LINE lamp.                     |  |
| 4.  | Cause             | A paper jam occurs in the kitchen printer.  |  |
| KP MOTOR LOCK                                     | Remedy            | Take the following procedures.  (1) Press the ON LINE switch on the kitchen printer to turn off the ON LINE lamp.  (2) Remove the paper jam.  (3) Press the ON LINE switch to illuminate the ON LINE lamp.  (4) Turn off the kitchen printer once and turn it on again. |  |

## 5. Replacement of the paper roll

When a red dye appears on the paper roll, it means that it is time to replace the existing paper roll. Replace the paper roll with a new one following the procedures below.

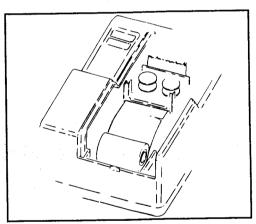
When installing a paper roll for the first time, take steps (1) and (4) through (7).

(1) Unlatch the printer cover and remove it by lifting.



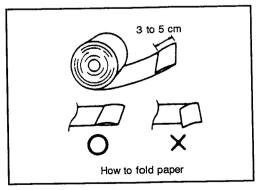
(Fig. 1)

- (2) Cut the paper along the broken line.
- (3) Press the LINE FEED switch to remove the paper remaining in the printer.



(Fig. 2)

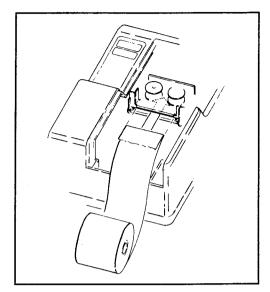
(4) Fold back the top end of the paper roll by 3 to 5 cm securely.



(Fig. 3)

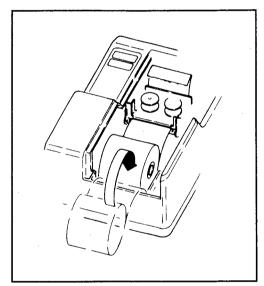
(5) Insert the end of the folded paper deep into the paper chute of the printer and press the LINE FEED switch to advance the paper.

Note: If paper is not inserted deep enough, it will not advance when the LINE FEED switch pressed.



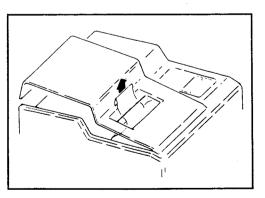
(Fig. 4)

(6) Pull up the slack of the paper roll and set it in position.



(Fig. 5)

(7) Pass the top end of the paper through the paper cutter on the printer cover and shut it.

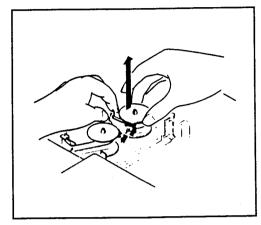


(Fig. 6)

### 6. Replacement of the ink ribbon

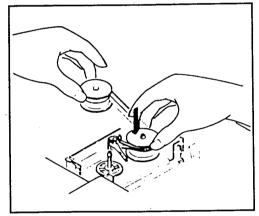
When the print becomes faint, replace the ink ribbon with a new one following the procedures below. Be sure to turn off the kitchen printer before replacing the ink ribbon.

- (1) Open the printer cover.
- (2) Remove the existing ink ribbon in the following manner.
- Pulling the spool stop lever inward, draw out one spool upward.
- Draw out another spool in the same manner as mentioned above.
- Remove both the spools by lifting them gently so that they are not caught by anything.



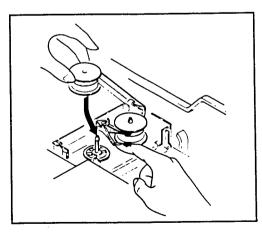
(Fig. 1)

- (3) Install a new ink ribbon in the following manner.
- Set one spool on the corresponding spindle with the black side of the ink ribbon facing upward. (The spool stop lever must have been tipped toward the opposite side of the spool.) Then rotate the spool a little to fix it to the spindle completely.



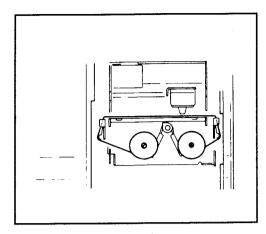
(Fig. 2)

• Tipping the spool stop lever toward the installed spool, set another spool on the corresponding spindle.



(Fig. 3)

 Place the ink ribbon into the space indicated by the broken line in the figure at right and rotate either spool to make the ribbon tight. (Fig. 4)



Replacement of the ink ribbon ends with this.

(Fig. 4)

(4) Close the printer cover.

### 7. Specifications

Interface:

RS-232C

Duplex type:

Simplex

Line configuration:

Direct connection

Data rate:

9600, 4800, 2400, 1200, 600, or 300 bps. (The data rate can be set to any of

the above values. It is set to 9600 bps when the option is shipped.)

Synchronizing mode:

Asynchronous mode

Parity check:

Vertical parity check (odd parity check)

Code:

ASCII

Bit sequence:

LSB

Data format:

1 start bit + 8 data bits + 1 parity bit + 1 stop bit

#### FOR CUSTOMERS IN U.K. -

#### **IMPORTANT**

The wires in this mains lead are coloured in accordance with the following code:

GREEN-AND-YELLOW:

Earth

BLUE:

Neutral

**BROWN:** 

Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows. The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  $\frac{1}{-}$  or coloured green or green-and-yellow.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured red.

Ensure that your equipment is connected correctly – if you are in any doubt consult a qualified electrician.

"WARNING: THIS APPARATUS MUST BE EARTHED"

#### Umweltschutz

Das Gerät wird durch eine Batterie mit Strom versorgt. Um die Batterie sicher und umweltschonend zu entsorgen, beachten Sie bitte folgende Punkte:

- Bringen Sie die leere Batterie zu Ihrer örtlichen Mülldeponie, zum Händler oder zum Kundenservice-Zentrum zur Wiederverwertung.
- Werfen Sie die leere Batterie niemals ins Feuer, ins Wasser oder in den Hausmüll.

#### Protection de l'environnement

L'appareil est alimenté sur pile. Afin de protéger l'environnement, nous vous recommendons de traiter la pile usagée la façon suivante:

- Apporter la pile usagée à votre centre de traitement des ordures ménagères le plus proche ou, à votre revendeur ou, au service aprèsvente, pour recyclement.
- Ne jamais jeter la pile usagée dans une source de chaleur, dans l'eau ou dans les vide-ordures.

#### Miijöskydd

Denna produkt drivs av batteri.

Vid batteribyte skall följande iakttagas:

- Det f\u00f6rbrukade batteriet skall inl\u00e4mnas till er lokala handlare eller till kommunal milj\u00f6station f\u00f6r \u00e4terinssamling.
- Kasta ej batteriet i vattnet eller i hushållssoporna. Batteriet får ej heller utsätttas för öppen eld.

### **SHARP CORPORATION**

OSAKA, JAPAN

Printed in Japan/Imprimé au Japo-2K3T(TINSE7249RCZ;